

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other Instructions on
reverse side)

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-59088	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Indianola	
2. NAME OF OPERATOR Hunt Oil Company		7. UNIT AGREEMENT NAME Indianola	
3. ADDRESS AND TELEPHONE NO. P.O. Box 3119, Casper, Wyoming 82602		8. FARM OR LEASE NAME, WELL NO. Fed. 24-1	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface 1971' FNL & 2249' FEL (SW1/4NE1/4) Sec. 24, T11S, R4E At proposed prod. zone 780' FSL & 248' FWL (SW1/4SW1/4) Sec. 13, T11S, R4E		9. APPROX. WELL NO. Wildcat	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approx. 4 miles northeast of Indianola, Utah		10. FIELD AND POOL, OR WILDCAT Wildcat	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Bottom Hole Loc.) (Also to nearest drlg. unit line, if any) Approx. 2500'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 24, T11S, R4E S.L.B. & M.	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None		12. COUNTY OR PARISH Utah	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 7,431'		13. STATE Utah	
23. PROPOSED CASING SIZE OF HOLE GRADE SIZE OF CASING WEIGHT		16. NO. OF ACRES IN LEASE Lease-5674.97 Unit-23,501.95	
		17. NO. OF ACRES ASSIGNED TO THIS WELL 160	
		20. ROTARY OR CABLE TOOLS Rotary	
		22. APPROX. DATE WORK WILL START* Upon Approval	
		QUANTITY OF CEMENT	

Please refer to attached Surface Use Plan and Drilling Program for additional information.

I hereby certify that I am responsible under the terms and conditions of the lease to conduct lease operations in conjunction with the application. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Hunt Oil Company under their nationwide bond, BLM Bond No. 48S100 514089 (BLM File No. CO 0797).

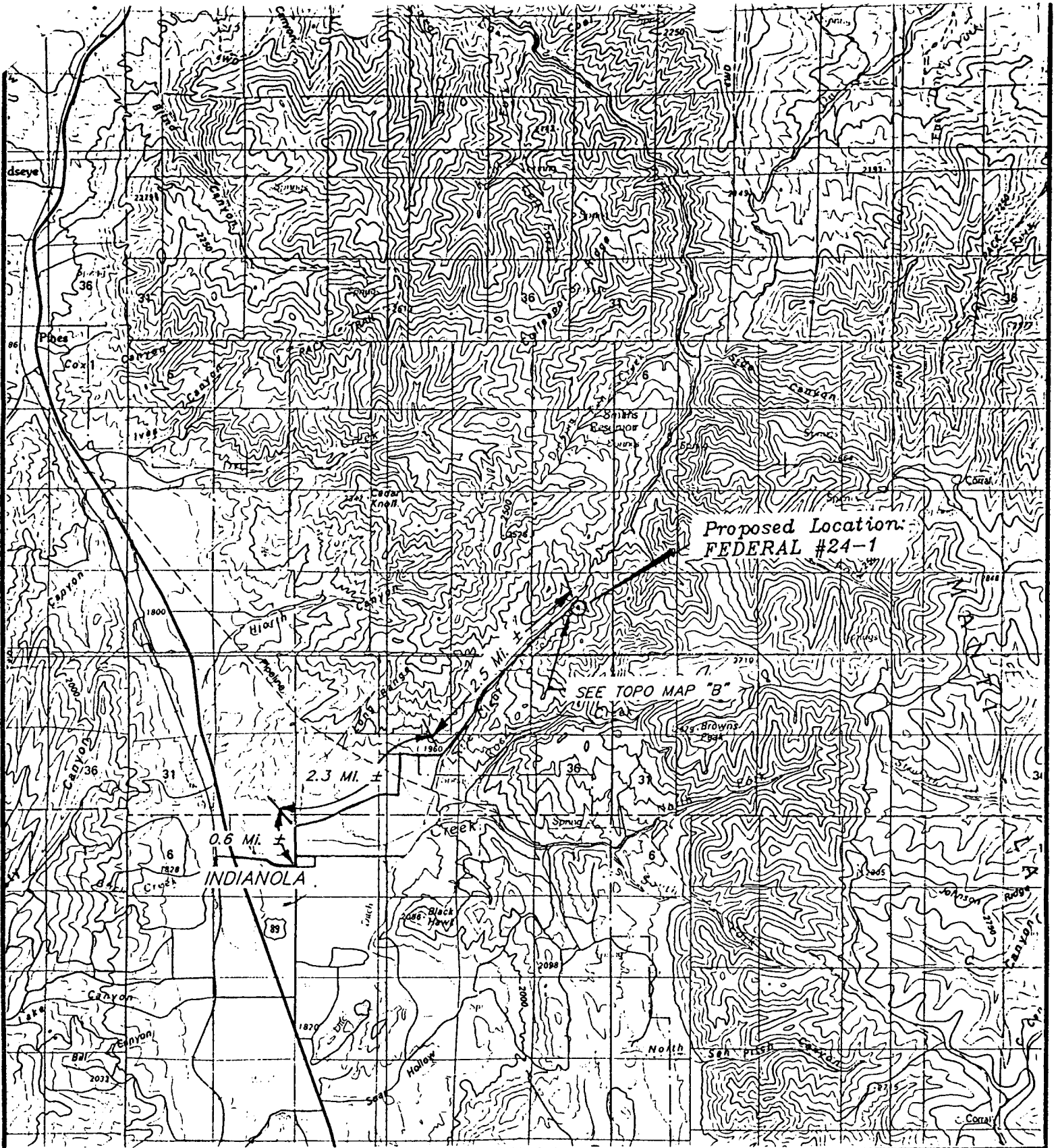
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. Chuck Williams SIGNED Chuck Williams TITLE Environmental Specialist DATE 1/17/94
(This space for Federal or State office use)

PERMIT NO. 43-049-30016 APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY Deane H. Zeelen TITLE District Manager DATE June 24, 1994
*See Instructions On Reverse Side

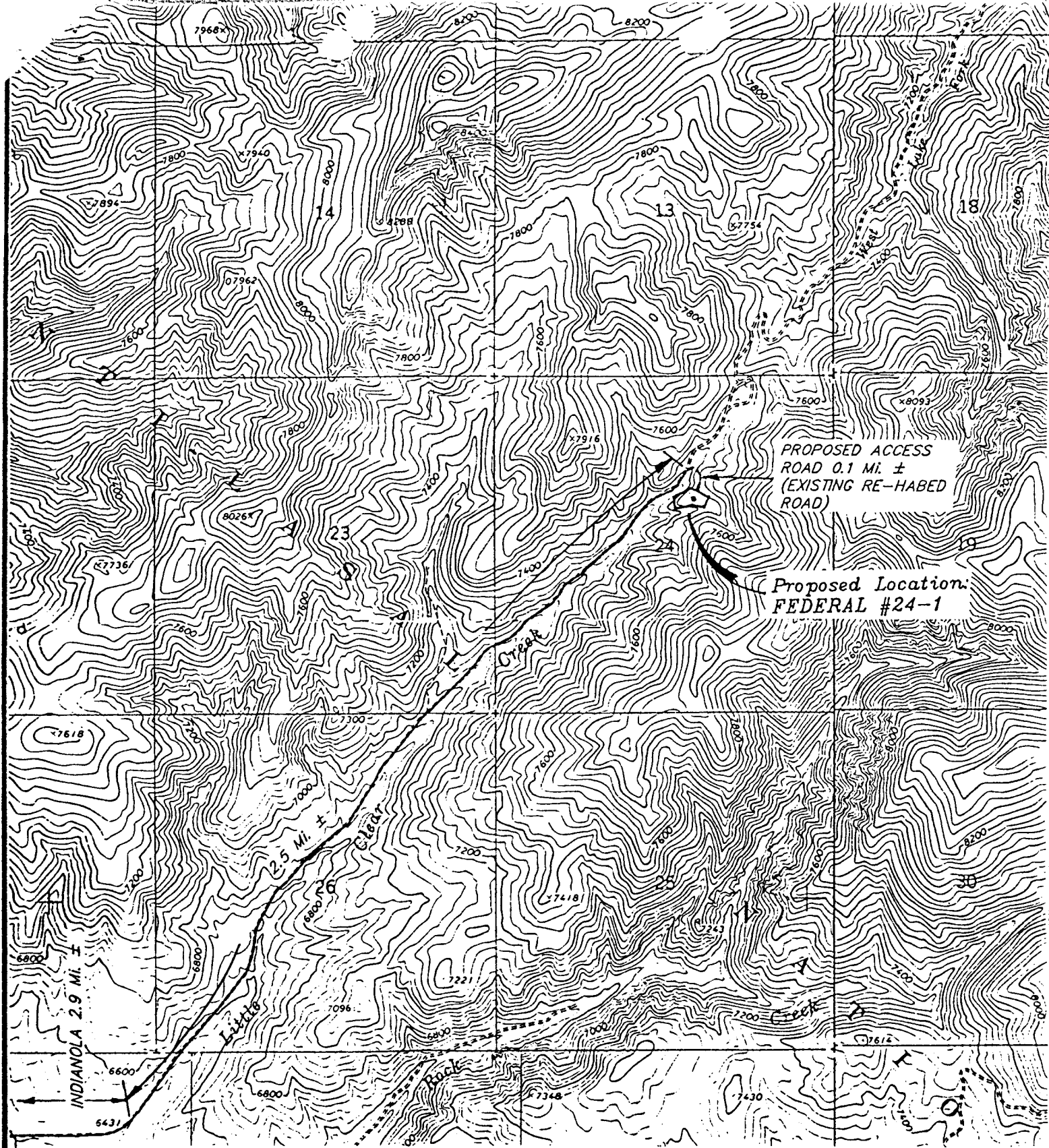


TOPOGRAPHIC
MAP "A"

DATE: 12-27-93 D.J.S.



HUNT OIL CO.
FEDERAL #24-1
SECTION 24, T11S, R4E, S.L.B.&M.



TOPOGRAPHIC
MAP "B"

SCALE: 1" = 2000'

DATE: 12-27-93 D.J.S.



HUNT OIL CO.

FEDERAL #24-1
SECTION 24, T11S, R4E, S.L.B.&M.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-59088		
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Indianola		
2. NAME OF OPERATOR Hunt Oil Company		7. UNIT AGREEMENT NAME Indianola		
3. ADDRESS AND TELEPHONE NO. P.O. Box 3119, Casper, Wyoming 82602		8. FARM OR LEASE NAME, WELL NO.		
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14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approx. 4 miles northeast of Indianola, Utah		10. FIELD AND POOL, OR WILDCAT Wildcat		
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17. NO. OF ACRES ASSIGNED TO THIS WELL 160		13. STATE Utah		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None		19. PROPOSED DEPTH 10,500' TVD 11,250' MD		
20. ROTARY OR CABLE TOOLS Rotary		21. APPROX. DATE WORK WILL START* Upon Approval		
22. APPROX. DATE WORK WILL START*				
23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE SIZE OF CASINO	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 $\frac{1}{2}$ "	New 13-3/8"	48#, H40, STC	150'	210 sx cement w/2% Cal & $\frac{1}{2}$ #/sk Flocele
12 $\frac{1}{4}$ "	New 9-5/8"	47#, L80, LTC	2,450'	660 sx Lite cement + additives followed by 280 sx Class H w/additives
8 $\frac{1}{2}$ "	New 5-1/2"	17#, L80, LTC	11,250'	1000 sx 50-50 Pozmix + additives

Please refer to attached Surface Use Plan and Drilling Program for additional information.

I hereby certify that I am responsible under the terms and conditions of the lease to conduct lease operations in conjunction with the application. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Hunt Oil Company under their nationwide bond, BLM Bond No. 48S100 514089 (BLM File No. CO 0797).

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. Chuck Williams
SIGNED Chuck Williams TITLE Environmental Specialist DATE 1/17/94
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
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CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY Deane H. Zeller District Manager DATE June 24, 1994
*See Instructions On Reverse Side

COPY



January 28, 1994

HUNT OIL COMPANY

Fountain Place
1445 Ross at Field
Dallas, Texas 75202-2785
(214) 978-8000
Fax: (214) 978-8888
Telex: 6829258

Mr. Robert Henricks
Chief, Branch of Fluid Minerals
Bureau of Land Management
324 South State Street, Suite 301
Salt Lake City, Utah 84111

RECEIVED
FEB 03 1994
DIVISION OF
OIL, GAS & MINING

**RE: Indianola Unit Area
Utah County, Utah**

Dear Sir:

Reference is made to your letter of April 7, 1993, advising Hunt Oil Company that the Indianola Unit Area was designated as a logical unit area pursuant to the provisions of the Mineral Leasing Act, as amended. Said designation requested that a test well be drilled to a depth of 10,500 feet or to test the upper 600 feet of the Nugget formation. The initial test well was to be located in the SE/4 of Section 14, Township 11 South, Range 4 East, SLM&B.

Due to topographical and environmental concerns, Hunt Oil Company has found it necessary to move the initial test well as originally proposed. Therefore, Hunt Oil Company hereby respectfully requests that a well located at the following described location be approved as the initial Indianola Unit Well: Surface location: 1,860 feet FNL and 2,242 feet FEL of Section 24, Township 11 South, Range 4 East. The well will be deviated Northwesterly approximately 3,841 feet resulting in a Bottom Hole location of 780 feet FSL and 248 feet FWL of Section 13, Township 11 South, Range 4 East. The measured depth of the proposed unit well will be 11,250, with the True Vertical Depth (TVD) remaining as designated at 10,500 feet.

Further, as we anticipate that permitting the new well location and pursuing final unit approval will exceed the year limit stated in your letter of April 7, 1994, it is requested that the designation of the Indianola Unit Area remain effective until final unit approval.

COPY

Bureau of Land Management
Branch of Fluid Minerals
P.O. Box 45155
Salt Lake City, Utah 84145-0155

RECEIVED

February 2, 1994

FEB 03 1994

Hunt Oil Company
c/o UnitSource Incorporated
1050-17th Street, Suite 705
Denver, Colorado 80265

DIVISION OF
OIL, GAS & MINING

Re: Indianola Unit
Utah County, Utah

Gentlemen:

This letter is to acknowledge your request for a change in the location of the unit obligation well for the Indianola Unit. The original location of the obligation well was in the SE $\frac{1}{4}$ of Section 14, Township 11 South, Range 4 East, SLB&M and the proposed change would place the well in the NE $\frac{1}{4}$ of Section 24, Township 11 South, Range 4 East, SLB&M.

Your request for change of location for the obligation well is hereby approved. Also, the designation of the Indianola Unit is extended to April 7, 1995.

Sincerely,

/s/ R. Allen McKee

for Robert A. Henricks
Chief, Branch of Fluid Minerals

bcc: Salt Lake District Office
DOGM:
File - Indianola Unit
Agr. Sec. Chron.
Fluid Sec. Chron

U922:TATHOMPSON:tt:02-02-94

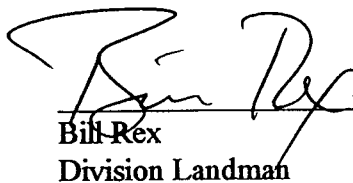
COPY

Indianola Unit Area
Page 2

Thank you in advance for your consideration. Please direct your response to this request to Hunt Oil Company, c/o UnitSource Incorporated, 1050-17th Street, Suite 705, Denver, Colorado 80265.

Sincerely,

HUNT OIL COMPANY



Bill Rex
Division Landman

BR/pc



January 18, 1994

Bureau of Land Management
Pony Express Resource Area
2370 South 2300 West
Salt Lake City, Utah 84119

ATTN: Mr. Mike Ford

RECEIVED

FEB 11 1994

**DIVISION OF
OIL GAS & MINING**

HUNT OIL COMPANY
800 Werner Court, Suite 200
P.O. Box 3119
Casper Wyoming 82602
(307) 237-8461
Fax: (307) 237-7669

RE: Application For Permit To Drill
Indianola Federal 24-1
S.H.L. SWNE Sec. 24, T11S, R4E
B.H.L. SWSW Sec. 13, T11S, R4E
Utah County, Utah
Lease Number U-59088

Dear Mr. Ford;

Please find the enclosed original and two (2) copies of the above referenced Application For Permit To Drill (APD). I am also sending a copy to the U.S. Forest Service, Sanpete Ranger District.

Hunt Oil Company wishes to withdraw the APD previously submitted for our proposed Indianola Federal 14-1.

We have decided to test the subject prospect by drilling a directional hole from the surface location that UNOCAL used to drill their Federal 1-G24 well. This will minimize the environmental impact associated with testing the prospect. If hydrocarbons are discovered in commercial quantities, we will resubmit the Federal 14-1 APD.

Due to the fact that we are not sure of exact location of the reserve pit used during the drilling of the UNOCAL well, we propose to drill several core holes prior to construction of the well location for the subject APD.

The core holes will be 2" to 6" in diameter and will be drilled approximately 10' to 15' deep. It's unsure at this time how many holes will need to be drilled to delineate the area of the old reserve pit. Once the area of the old reserve pit is delineated, soil samples will be collected and analyzed from the areas immediately surrounding it. These samples will be used to determine if any hazardous chemicals have migrated out of the old reserve pit.

Hunt Oil Company requests that the downhole program for the subject APD be given "CONFIDENTIAL" status for the maximum time period possible.

A.P.D Indianola Fed. 24-1
January 18, 1994
Page Two

Please don't hesitate to contact me if you have questions or need any additional information.

Sincerely,

A handwritten signature in cursive script that reads "Chuck Williams".

Chuck Williams
Environmental Specialist

CKW:cb

cc: Bill Lewis
Ron Gardner
Mark Griffin
Kit Weaver
George Roth
Ken Treaccar
U.S.F.S., Sanpete Ranger Dist.

CKW63

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Hunt Oil Company

3. ADDRESS AND TELEPHONE NO.

P.O. Box 3119, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

1971' FNL & 2249' FEL (SW $\frac{1}{4}$ NE $\frac{1}{4}$) Sec. 24, T11S, R4E

At proposed prod. zone

780' FSL & 248' FWL (SW $\frac{1}{4}$ SW $\frac{1}{4}$) Sec. 13, T11S, R4E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approx. 4 miles northeast of Indianola, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Bottom Hole Loc.)
(Also to nearest drlg. unit line, if any)

Approx. 2500'

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

None

16. NO. OF ACRES IN LEASE
Lease-5674.97
Unit-23,501.9519. PROPOSED DEPTH
10,500' TVD
11,250' MD17. NO. OF ACRES ASSIGNED TO THIS WELL
160

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

GR 7,431'

22. APPROX. DATE WORK WILL START*

Upon Approval

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 $\frac{1}{2}$ "	New 13-3/8"	48#, H40, STC	150'	210 sx cement w/2% Cal & 1#/sk Flocele
12 $\frac{1}{2}$ "	New 9-5/8"	47#, L80, LTC	2,450'	660 sx Lite cement + additives followed by 280 sx Class H w/additives
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24.

SIGNED

Chuck Williams

TITLE Environmental Specialist

DATE

1/17/94

(This space for Federal or State office use)

PERMIT NO.

43-049-30016

APPROVAL DATE

APPROVED BY THE STATE
OF UTAH DIVISION OF

OIL, GAS, AND MINING

DATE:

6/24/94

BY:

J. J. Atticus

WELL SPACING

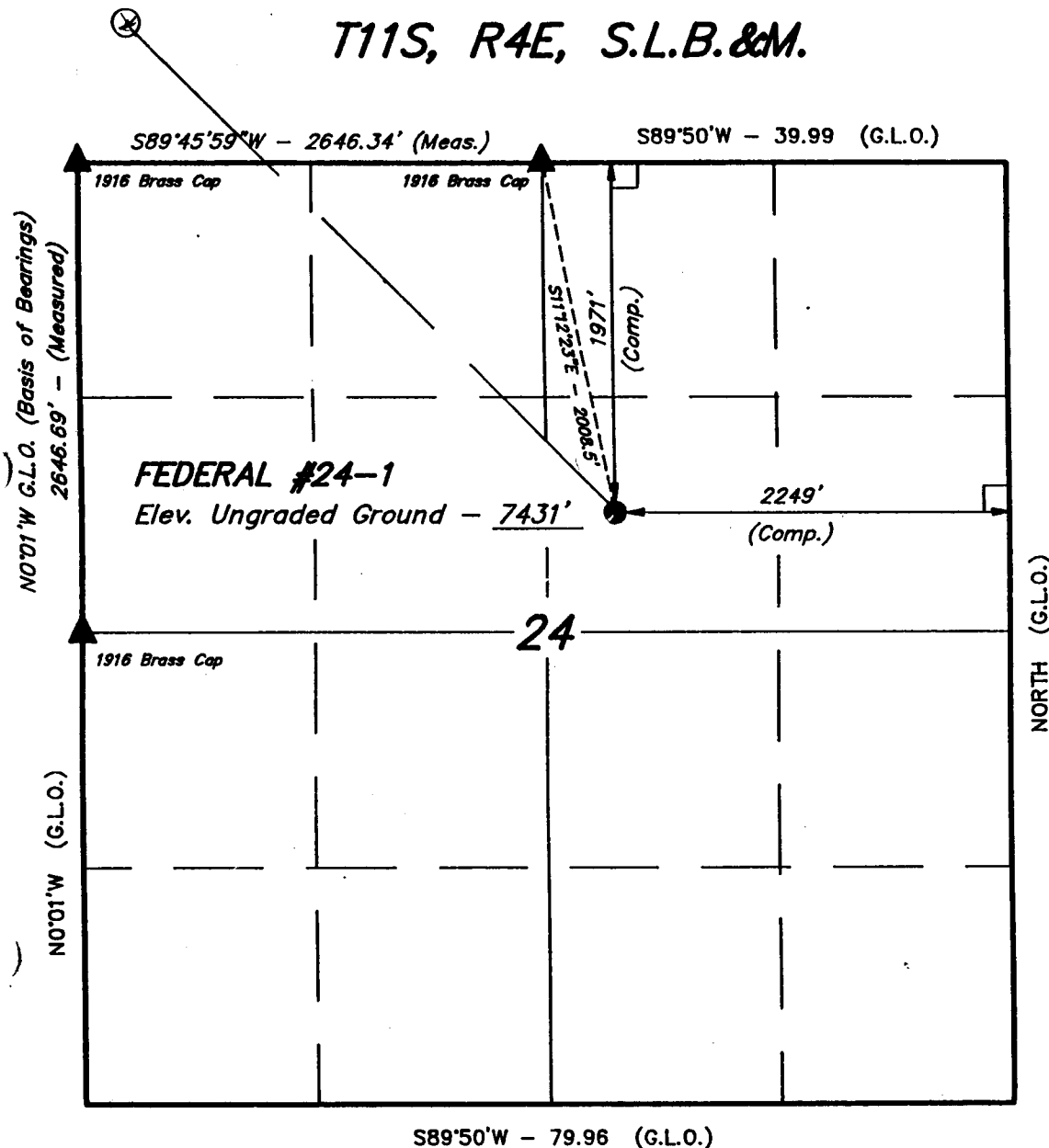
43-049-2-3

APPROVED BY

TITLE

*See Instructions On Reverse Side

T11S, R4E, S.L.B.&M.



LEGEND:

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.

NOTE:

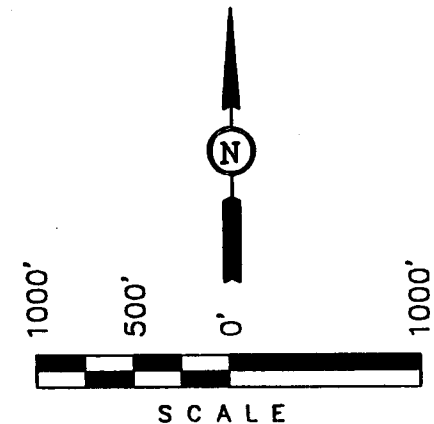
THE UNGRADED GROUND ELEVATION IS SCALED FROM A CONTOUR MAP WE PREPARED OF THE WEL SITE.

HUNT OIL CO.

Well location, FEDERAL #24-1, located as shown in the SW 1/4 NE 1/4 of Section 24, T11S, R4E, S.L.B.&M. Utah County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE SW CORNER OF SECTION 33, T11S, R4E, S.L.B.&M. TAKEN FROM THE INDIANOLA QUADRANGLE, UTAH, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6025 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert L. Krey
REGISTERED LAND SURVEYOR
REGISTRATION NO. 5709
STATE OF UTAH

REVISED: 1-6-94 T.D.H.

UNTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 12-22-93	DATE DRAWN: 12-28-93
PARTY G.S. T.G. T.D.H.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE HUNT OIL CO.	

INDIANOLA FEDERAL 24-1

DRILLING PROGRAM

Company: Hunt Oil Company
Well Name & Number: Indianola Federal 24-1
Surface Location: 1,971' FNL & 2,249' FEL of
Section 24, T11S, R4E

Bottomhole Location: 780' FSL & 248' FWL of
Section 13, T11S, R4E

Field: Wildcat (Indianola)
County: Utah State: Utah

1. Estimated Important Geologic Markers

<u>Horizon</u>	<u>Drilling Depth</u>
Arapien	3,000' TVD
Twin Creek	7,500' TVD
Nugget	8,100' TVD
TD	10,500' TVD

2. Estimated Depth of anticipated water, oil, gas or other minerals:

<u>Formation</u>	<u>Drilling Depth</u>	<u>Remarks</u>
Arapien	3,000' TVD	Water
Twin Creek	7,500' TVD	Oil/Gas
Nugget	8,100' TVD	Oil/Gas

3. Operator's Minimum Specifications for Pressure Control:

A. Exhibit "C" is a schematic diagram of the blowout preventer equipment which will consist of 13-5/8" 5000# WP triple ram preventer with an annular. All fill, kill and choke lines will be 5,000 psi WP.

B. Testing Procedures:

1. Ram type preventers and associated equipment shall be tested to approved stack working pressure, or to 70% of the internal yield pressure of the casing if the BOP stack is not isolated from the casing. Pressure shall be maintained for at least 10 minutes, or until requirements of the test are met, whichever is longer.

2. Tests will be run at the time of isolation, prior to drilling out of each casing shoe, whenever any seal subject to test pressure is broken, and at least every 30 days.
 3. All casing strings will be pressure tested to 0.22 psi/ft or 1,500 psi (whichever is greater) with rig pumps prior to drilling the plug after cementing. Test pressure should not exceed 70% of the minimum internal yield of the casing.
- C. Accessories to the BOP shall include upper and lower kelly cock valves with handles and floor safety valve, drill string BOP and choke manifold with pressure rating equivalent to the BOP stack. The choke line, including vent and flare lines will be at least 3".
 - D. An accumulator unit will be used that has sufficient capacity to open the hydraulically controlled choke line valve (if so equipped), close all rams and retain a minimum of 200 psi above precharge on the closing manifold without the use of the closing unit pumps. The system shall have two independent power sources to close the preventers. Hydraulic controls will be located at the master accumulator and on the rig floor. Manual control (hand wheels) will also be installed on the blind and pipe rams. Refer to attached Exhibit "C" (1) for the diagram of the "Accumulator System and Hydraulic Controls".
4. Casing and Cementing Program
- A. All casing is new and inspected.
 - B. Conductor casing: 150' of 13 3/8" 48#/ft H40 STC cemented to surface with 210 sks of regular cement with 2% calcium chloride and 1/4 #/sk flocele.
 - C. Surface casing: 2450' of 9 5/8" 47#/ft L80 LTC and cemented to surface with 660 sks of Lite cement with 2% calcium chloride, followed by 280 sks of Class H cement with 2% calcium chloride. If required, the top 60' of surface casing will be cemented back to surface with 50 sks of Class H cement using 1" tubing.
 - D. Production casing: 11,250' MD of 5 1/2" 17#/ft L80 LTC casing cemented with 1000 sks of 50-50 Pozmix, containing 2% Gel, 0.2% CFR-3, 0.5% HALAD 344, 0.2% HR-5, 0.3% VERSASET mixed at 14 ppg. Cement will be placed from TD to 7100'.

The actual cement volumes will be determined based on hole volume from the caliper log.

5. Auxillary Equipment

- A. A float shoe and float collar will be used.
- B. A pit-volume-totalizer system will be used throughout the drilling of the well.
- C. A mudlogging unit for sample evaluation will be used.

6. Mud Program

- A. The mud system will be a low solids non-dispersed system. There will be adequate stocks of barite for pressure control, loss-circulation material for lost returns and absorptive material to handle any anticipated spills of fuel or engine oils on surface.

Surface to 2450': Freshwater spud mud
2450' to 11,250': LSND gelex mud system
MW: 8.7 - 9.8 ppg
FV: 40 - 50 seconds
FL: 10 cc's or less

7. Testing, Logging and Coring Program

- A. The primary objective is the Nugget. The secondary objective is the Twin Creek.

- B. DST's: Possible in the Twin Creek and/or Nugget.

- C. Logging Program:

Dual induction/GR/Sonic	10,500' TVD to 2450'
Lithodensity Neutron/GR	10,500' TVD to 2450'
Dipmeter/GR/Cal	10,500' TVD to 7500'

- D. Coring: None

- E. Well completion and/or stimulation procedures will be determined following the evaluation of the drilling results and the open hole logs. A sundry notice will be submitted outlining the planned completion procedure at that time.

8. Abnormal Pressures and Temperatures

- A. No abnormal pressures and/or temperatures have been noted in this area, nor at the depths anticipated in this well.

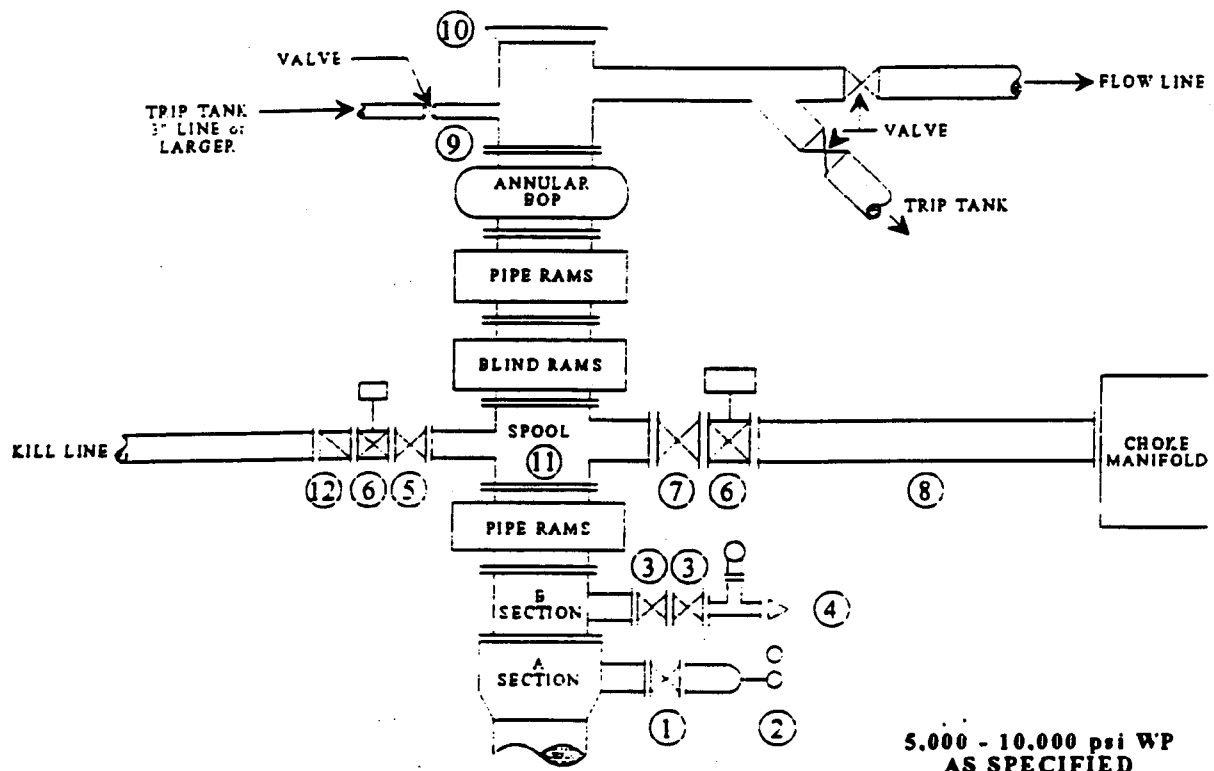
- B. No hydrogen sulfide is expected in this well, however, monitoring equipment will be incorporated in the drilling operation. Downhole tubulars will be designed for the eventuality of encountering hydrogen sulfide and/or carbon dioxide.

9. Starting Date and Duration of Operations

- A. The anticipated starting date is set for June 1, 1994. The anticipated drilling time is less than 90 days from spud date.

HUNT OIL COMPANY

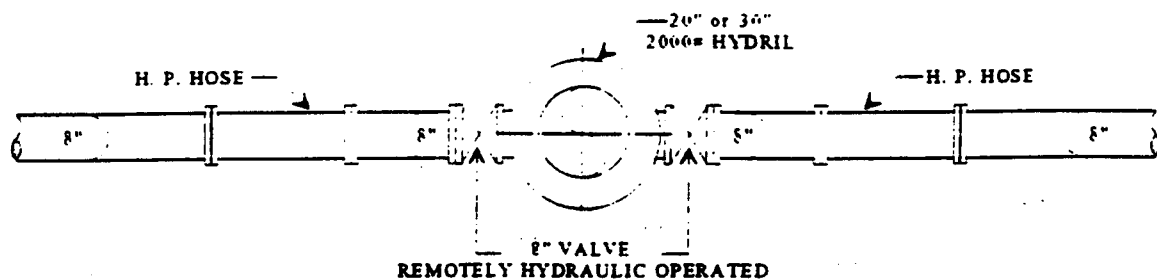
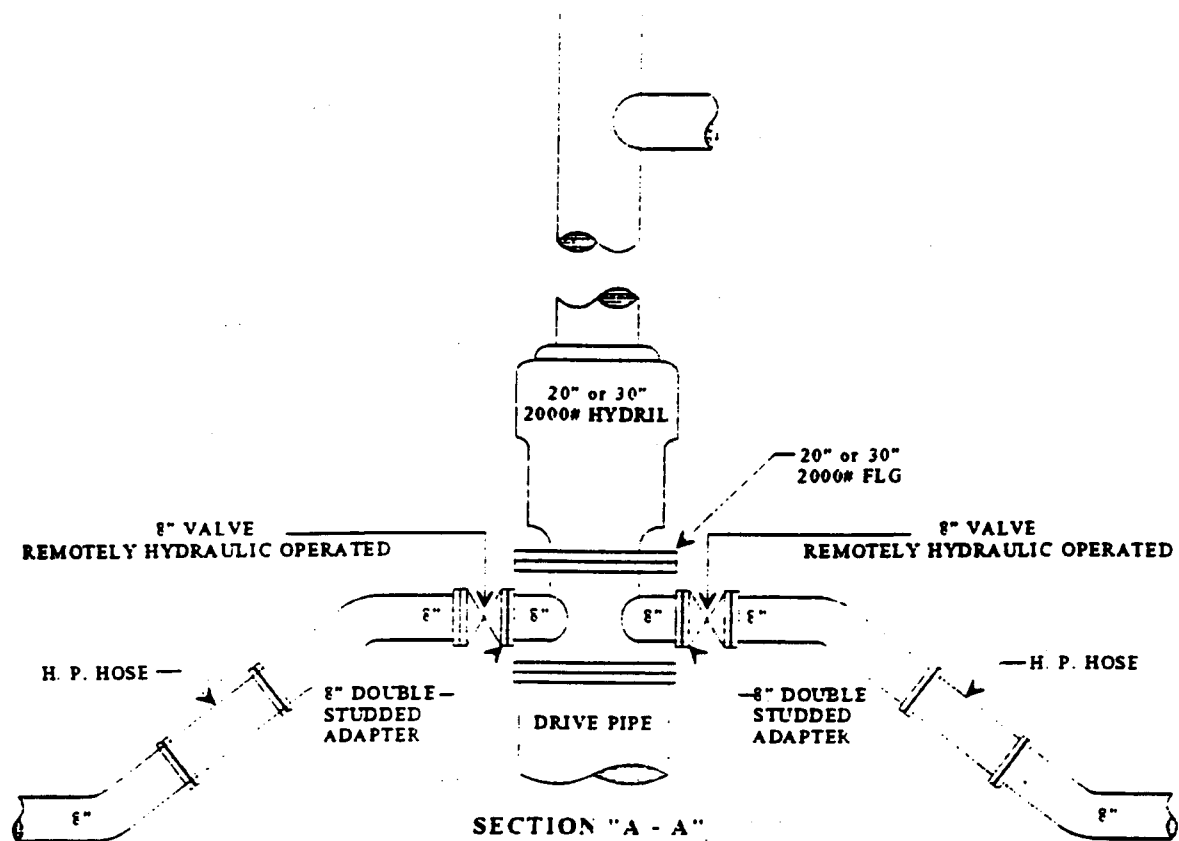
ARRANGEMENT OF A FOUR BOP STACK



1. FLANGED PLUG OR GATE VALVE - 2" SIZE - SAME WORKING PRESSURE AS "A" SECTION.
2. SCREWED TAPPED BULLPLUG WITH NEEDLE VALVE AND PRESSURE GAUGE.
3. FLANGED PLUG OR GATE VALVE - 2" SIZE - SAME WORKING PRESSURE AS TOP OF "B" SECTION.
4. FLANGED TEE WITH PRESSURE GAUGE AND/OR CONNECTION TO CASING PRESSURE GAUGE ON HYDRAULIC CHOKER CONTROL PANEL.
5. FLANGED VALVE - 2" MINIMUM SIZE.
6. FLANGED HYDRAULICALLY CONTROLLED GATE VALVE - 4" MINIMUM SIZE (ON CHOKER MANIFOLD SIDE).
7. FLANGED VALVE - 4" MINIMUM SIZE.
8. FLOWLINE FROM SPOOL TO CHOKER MANIFOLD - 4" MINIMUM SIZE - ALL CONNECTIONS MUST BE FLANGED OR WELDED.
9. CONNECTION AT TOP OF ANNULAR PREVENTOR MUST BE EQUIPPED WITH AN API RING GROOVE, API RING GASKET, AND API COMPANION FLANGE ON BELL NIPPLE. ALL FLANGE STUDS MUST BE INSTALLED.
10. THE ID OF THE BELL NIPPLE AND COMPANION FLANGE MUST NOT BE LESS THAN THE ID OF THE BOP STACK.
11. SPOOL - 2 FLANGED SIDE OUTLETS - 4" AND 2" MINIMUM ID.
12. CHECK VALVE - 2" MINIMUM SIZE.

NOTE:

- (A) UNLESS SPECIFIED OTHERWISE IN THE BID LETTER AND/OR CONTRACT, THE CONTRACTOR WILL FURNISH AND MAINTAIN ALL COMPONENTS SHOWN ABOVE EXCEPT THE "A" SECTION, "B" SECTION, AND ITEMS 1 THRU 4, WHICH WILL BE FURNISHED BY HUNT.
- (B) THE CHOKER LINE BETWEEN THE DRILLING SPOOL AND CHOKER MANIFOLD SHOULD NOT CONTAIN ANY BEND OR TURN IN THE PIPE BODY. ANY BEND OR TURN REQUIRED SHOULD BE MADE WITH A RUNNING TEE WITH A BLIND FLANGE OR WELDED BULLPLUG. ALL CONNECTIONS SHOULD BE FLANGED OR WELDED. WELDS SHOULD BE STRESS RELIEVED.

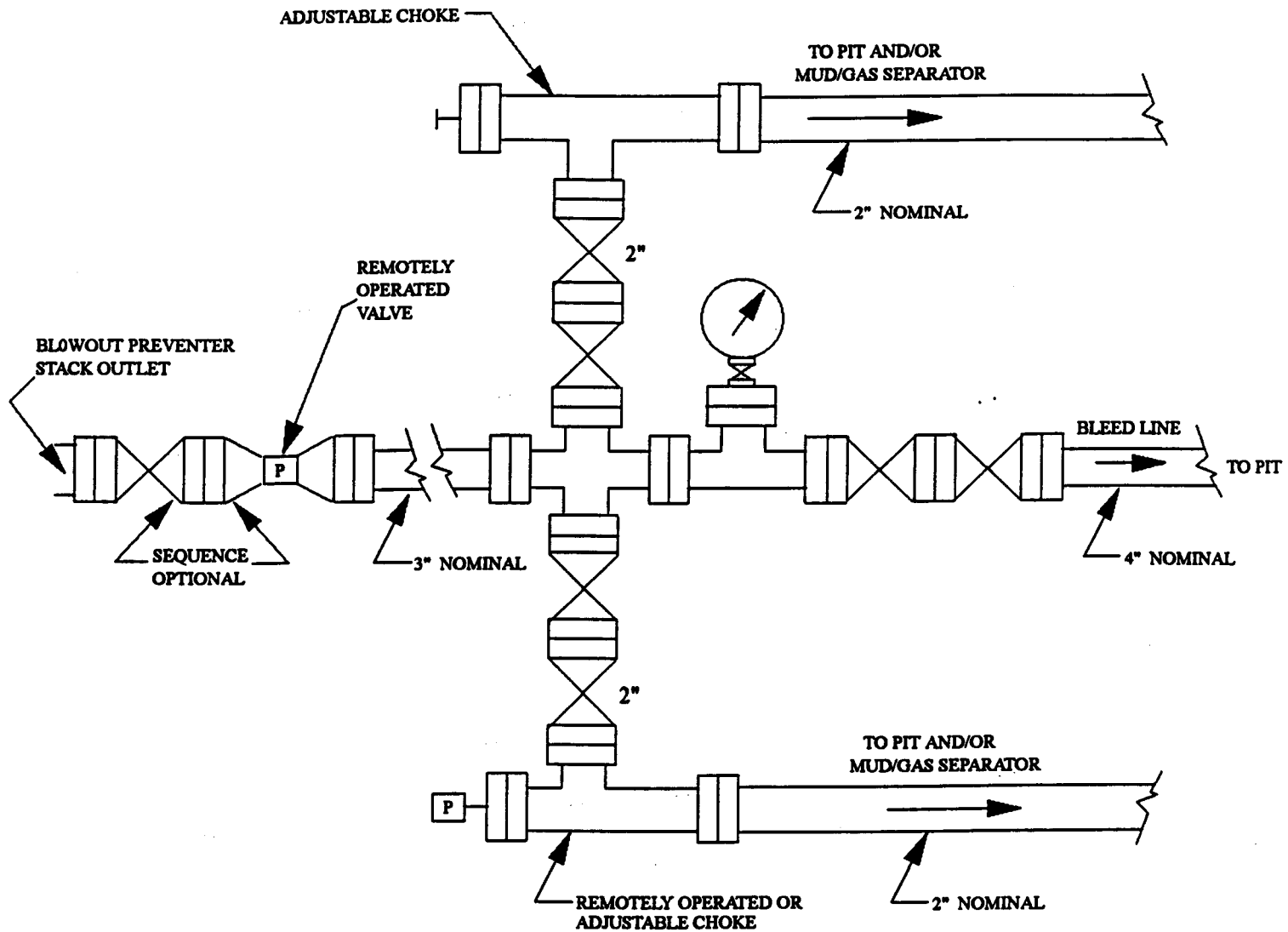


HUNT OIL COMPANY **TYPICAL DIVERTER HOOKUP**

NO SCALE

HUNT OIL COMPANY

5M CHOKE MANIFOLD



HUNT OIL COMPANY
INDIANOLA FEDERAL 24-1
SW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 24, T11S, R4E
Utah County, Utah

**APPLICATION FOR PERMIT TO DRILL
INDIANOLA FEDERAL 24-1
SW¼ NE¼ Section 24, T11S, R4E
Utah County, Utah**

- 1) **Existing Roads:** The following directions to the proposed location are from Indianola, Utah. Indianola is a small town between Spanish Fork and Mt. Pleasant, Utah on highway 89.

To get to the proposed location, travel north from Indianola on an improved gravel road for approximately .6 mile where the road turns east. Continue on for approximately 2.3 miles. At this point, the road enters the Manti-LaSal National Forest. Continue northeasterly on the improved gravel road for approximately 2.5 miles to where the proposed new access road starts (Refer to Topographic Map "A").

All existing access roads will be maintained in as good or better condition than presently exist and in accordance with U.S. Forest Service standards on surface managed by the U.S. Forest Service. Some area of the existing access road will require some minor maintenance prior to moving in heavy equipment to build the proposed access road and the drill rig. Maintenance will involve some minor grading and possibly some additional surface material.

- 2) **Proposed Access Roads:** Approximately .1 mile of access road will need to be constructed to reach the proposed well location (Refer to Topographic Maps "A" & "B"). The proposed access road will follow the same route UNOCAL pioneered into the well they drilled at this same location.

A qualified, full time, Hunt Oil Company representative familiar with the proposed access road construction standards will be onsite at all times during the construction phase.

The proposed access road will be constructed in compliance with U.S. Forest Service Oil and Gas Roving Guidelines R-4.

The travel surface of the proposed access road will be 14' wide and capped with 9" of gravel to facilitate all weather use. Gravel will be obtained from private sources and transported by truck over existing and proposed access roads.

Access road drainage ditches will be constructed approximately 1' deep with 3:1 or flatter slopes leading into the ditch from the travel surface and 1-1/2 to 2:1 backslopes.

Culvert size and placement locations will be determined during road construction. Minimum culvert diameter will be 18". Culverts will be installed in compliance with U.S. Forest Service guidelines.

- 3) **Location of Existing Wells:** The only known existing well within a two mile radius of the proposed well is a plugged and abandoned well drilled by Union Oil Company of California, 1936' FNL & 2079' FEL (SW¼NE¼) Section 24, T11S, R4E.

- 4) Location of Existing and/or Proposed Facilities if Well is Productive: There will be no production facilities associated with this well. This well is only being drilled to test the reservoir. If hydrocarbons are encountered in quantities estimated to be commercial, additional wells will be proposed to produce the discovered hydrocarbons.

Since the only purpose of this proposed well is to test the reservoir, it will be plugged and abandoned no matter what the outcome of the drilling effort.

- 5) Location and Type of Water Supply: Drilling water for this well will be obtained from a private source and hauled to the location over existing and proposed roads.

According to their APD, Union Oil Company of California obtained water to drill their well in Section 24 from some springs near Indianola and we are looking into obtaining our drilling water from the same source.

The required water appropriation permit will be obtained from the State of Utah.

- 6) Construction Materials: Construction materials for the proposed access road and the well location, will be obtained from private sources and hauled over existing and proposed access roads.

- 7) Methods of Handling Waste:

- A) Trash, garbage and junk will be contained in a portable trash bin and periodically disposed of at an approved sanitary landfill. The trash bin will be covered with fine mesh wire to prevent scattering.
- B) Human waste and sewage will be contained in portable chemical toilets and properly disposed of. Trailer sewage will be contained in a buried tank which will be emptied and removed when drilling operations are complete.
- C) A closed fresh water mud system is to be used during the drilling of the proposed well. No characteristic or listed toxic or hazardous materials will be used while drilling this well.

Drill cuttings and fluid will be contained in steel tanks and removed and properly disposed of.

- 8) Ancillary Facilities: No ancillary facilities are planned for this project.

- 9) Well Site Layout: Please refer to attached well site plat.

- A) The enclosed well site plat is a drawing made from notes and survey points from the field.

The proposed surface disturbing activities associated with the drilling of this well will be confined to the area previously disturbed during the drilling of the UNOCAL well drilled at this same location.

Since the rig we propose to use to drill this well will utilize a totally closed mud system, a reserve pit will not be necessary.

The exterior perimeter of the well site will be bermed with a berm of native soil at least 12" high with a 12" wide flat top.

A "V" ditch will be constructed at the bottom of any cut slopes to direct water around and away from the pad. Straw bales will be placed in the "V" ditch to catch any silt that may be washed.

Bales of straw will be placed at the toe of any fill slopes to prevent silt from traveling off site.

All work areas of the well location within the bermed area will be capped with at least 6" of gravel.

- B) The trash bin will be located on the east edge of the well site. Three trailers will be on location. These trailers will be used by Hunt Oil Company's well site supervisory personnel, the tool pusher and the mud logger.
- C) Rig laydown will be to the west, toward stake #8 on the well site plat. Parking and turn-around areas will be on the southeast corner of the well site.

10) Plans for the Reclamation of the Surface:

- A) Reclamation procedures if the well is completed as a producer - N/A.
- B) Reclamation procedures if the well is completed as a dry hole or when it is abandoned.
 - 1) All well site areas will be recontoured to resemble the surrounding terrain and prevent erosion. Stockpiled topsoil will be spread evenly over the recontoured area. All recontoured areas will be seeded utilizing a seed drill equipped with a depth indicator or hand broadcast and raked in.

Seeding will be done in the late fall prior to freeze up.

The recontoured areas will be seeded with the seed mixture and quantities specified by the U.S. Forest Service.

Seeding will be done on the contour to prevent erosion.

The well site will be fenced with 4 strands barbed wire until an adequate stand of vegetation has been established. The fence will then be removed.

- 2) Segregation of spoil piles into top soil and spoil or cut material stock piles will occur during the construction phase. Six inches of top soil will be removed from all areas to be disturbed or filled over during the construction phase and stock piled for future reclamation purposes.

- 3) Waste disposal: All unused chemicals will be returned to the supplier or disposed of properly.

Trash will be removed and disposed of in an approved sanitary landfill.

Sewage will be removed by a licensed or approved hauler and disposed of in conformance with state laws and regulations.

- 4) Access road reclamation: All culverts and other erosion control structures will be removed and properly disposed of.

The gravel on the road will be buried in place where possible since it possesses no environmental risk. In areas where it's not possible or acceptable to bury it in place, the gravel will be removed and disposed of.

All disturbed areas will be recontoured to resemble the surrounding terrain and prevent erosion.

Stockpiled top soil will be respread evenly over the recontoured areas.

The disturbed area will then be seeded and mulched with the species and quantities specified by the U.S. Forest Service.

A suitable barrier to discourage use of the reclaimed access road will be constructed at the junction of the access road and the Little Clear Creek Road.

- 11) Surface Ownership: The surface of the land where the proposed access road and well site are located is managed by the Manti-LaSal National Forest.

- 12) Other Information:

- A) Topography - The topography of the areas surrounding the proposed well site is characterized by steep hillsides with numerous side drainages.
- B) Soils - Soils are characterized by loamy to sandy loams.
- C) Wildlife - Wildlife species native to the area include Mule deer, elk, mountain lion, black bear, ground squirrels, rodents, various birds and raptors.
- D) Vegetation - Vegetative species characteristic and native to the area include: Oak Brush, Aspen trees, various species of pines, grasses and forbes.

- E) Cultural Resources - It is presumed that a cultural resource inventory of the subject area was conducted prior to UNOCAL's drilling operation.
- F) Closest Residence - The closest residence to the proposed well site is located in Indianola approximately 4 miles southwest.
- G) The appropriate air emission request will be submitted to the Department of Environmental Quality, Division of Air Quality.

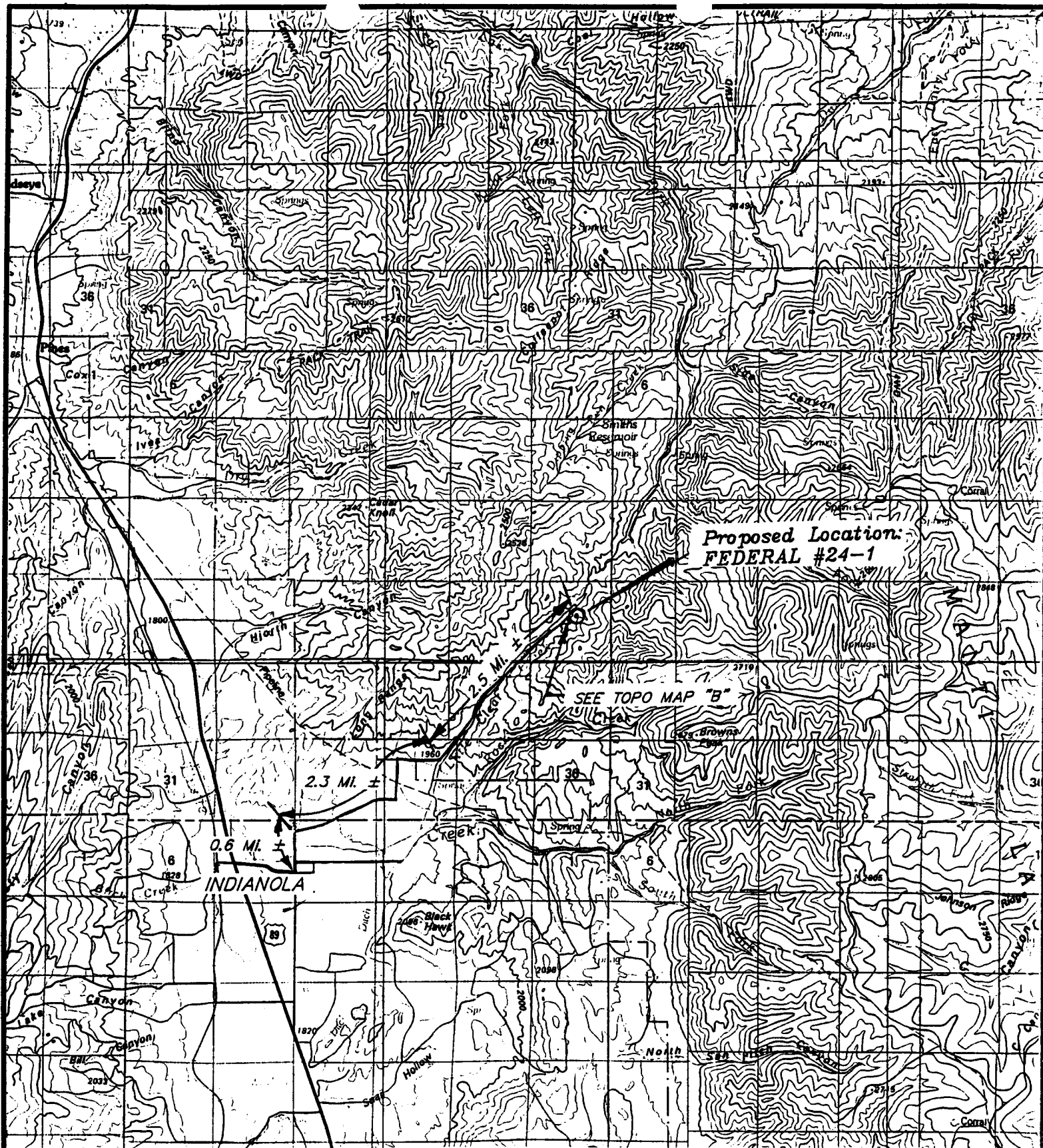
13) Lessee's or Operator's Representative and Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Hunt Oil Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Name: Chuck Williams

Title: ENVIRONMENTAL SPECIALIST

Date: JAN. 7, 1994

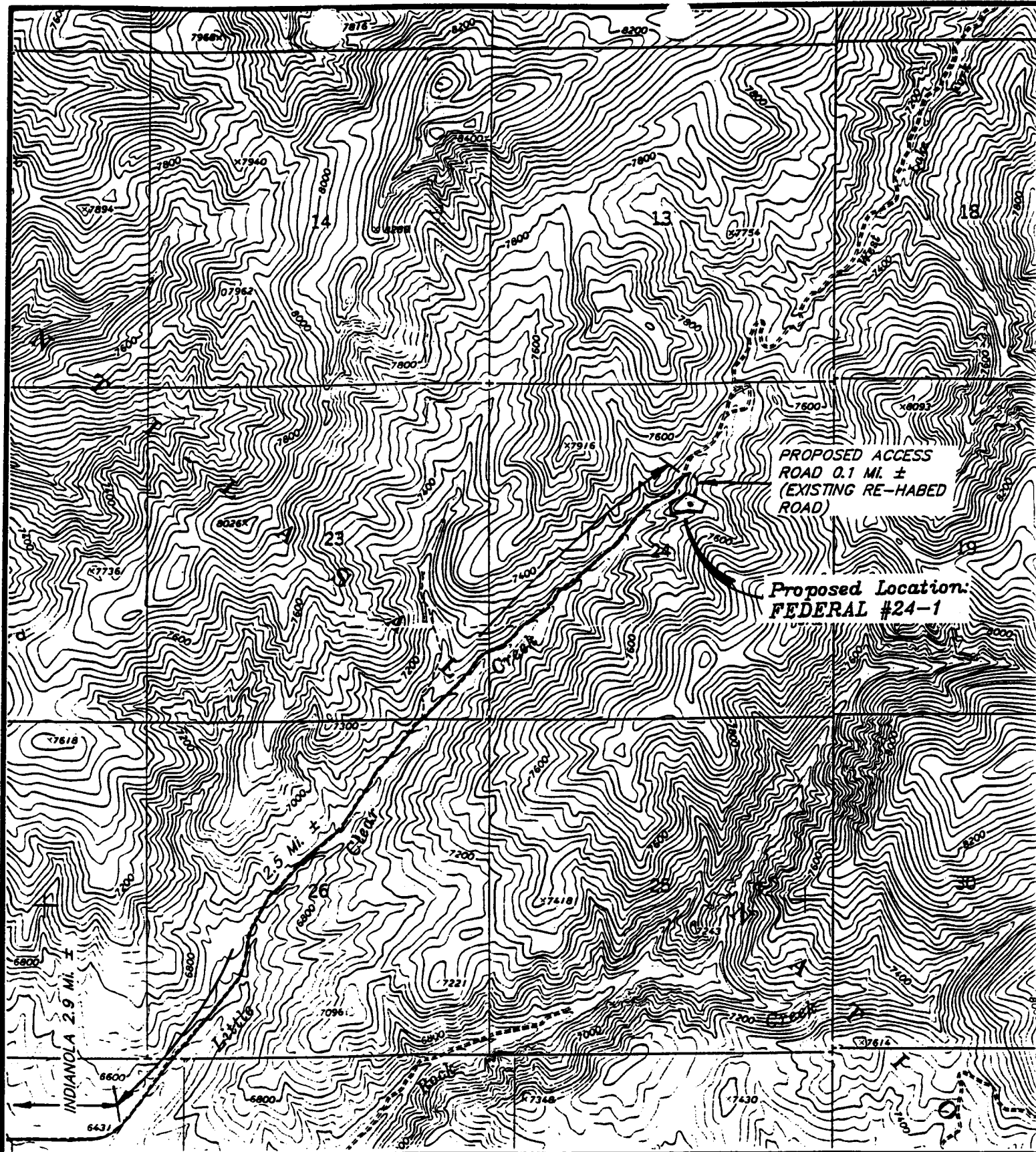


TOPOGRAPHIC
MAP "A"

DATE: 12-27-93 D.J.S.



HUNT OIL CO.
FEDERAL #24-1
SECTION 24, T11S, R4E, S.L.B.&M.



TOPOGRAPHIC
MAP "B"

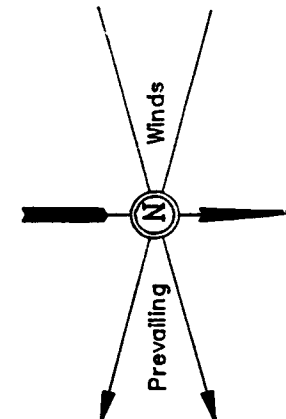
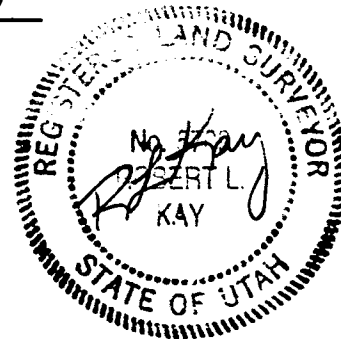
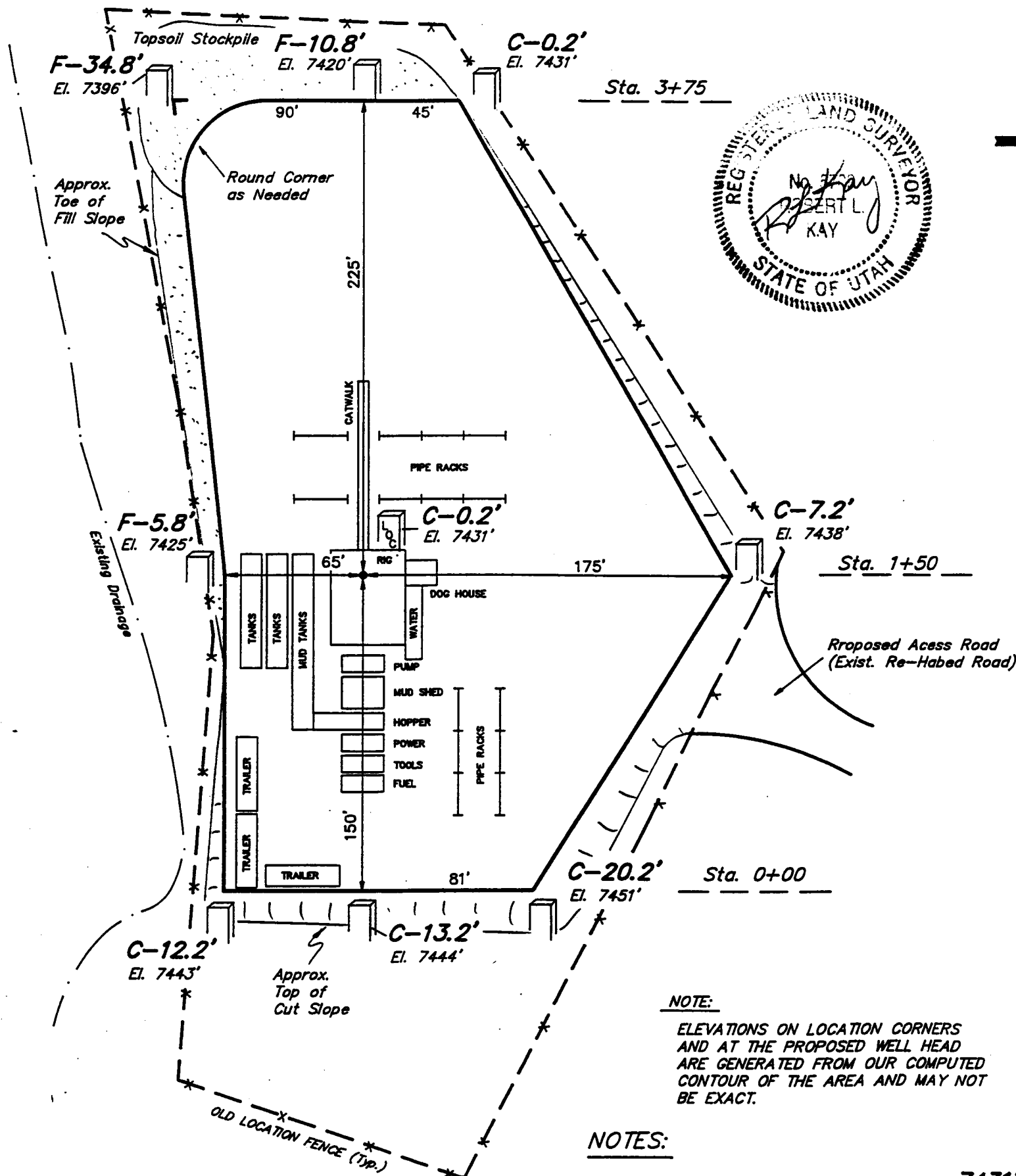
SCALE: 1" = 2000'

DATE: 12-27-93 D.J.S.

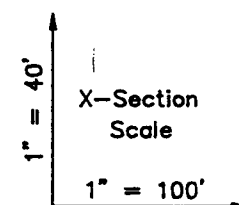


HUNT OIL CO.
FEDERAL #24-1
SECTION 24, T11S, R4E, S.L.B.&M.

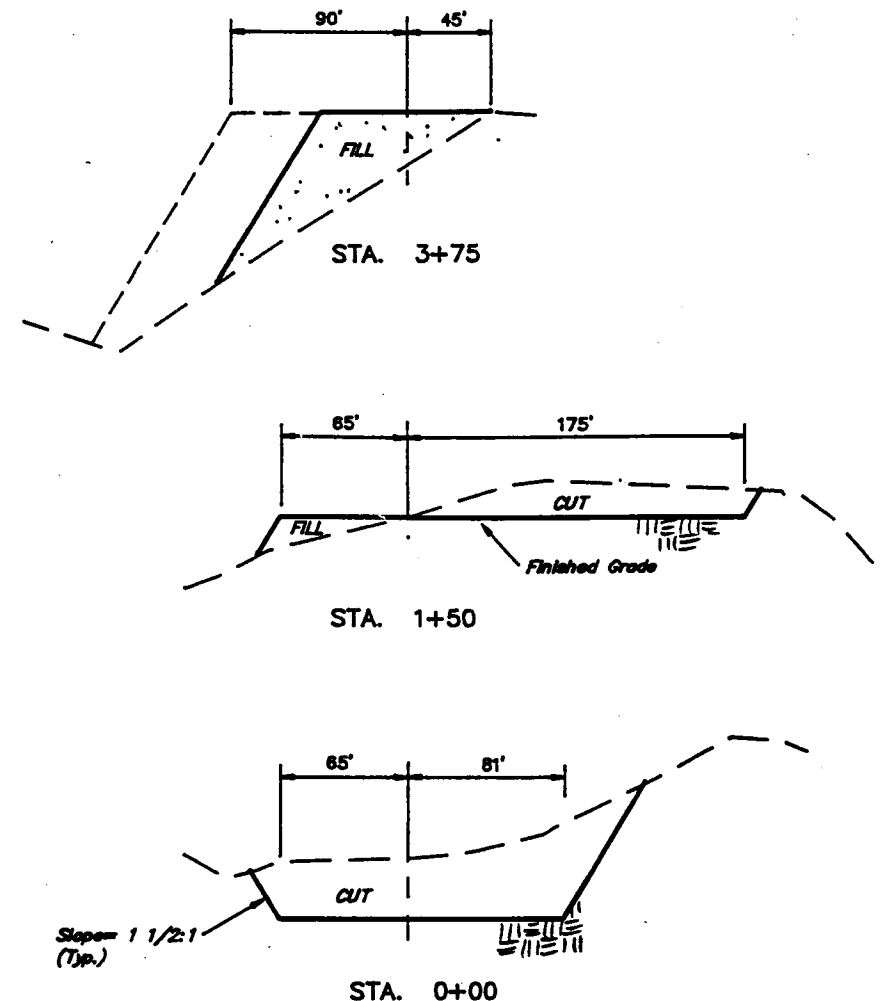
HUNT OIL CO.
LOCATION LAYOUT FOR
FEDERAL #24-1
SECTION 24, T11S, R4E, S.L.B.&M.
1971' FNL 2249' FEL



SCALE: 1" = 60'
DATE: 1-6-94
DRAWN BY: T.D.H.



TYP. LOCATION LAYOUT
TYP. CROSS SECTIONS



NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES

CUT					
(6") Topsoil Stripping	=	1,320 Cu. Yds.	EXCESS MATERIAL AFTER 5% COMPACTION	=	1,320 Cu. Yds.
Remaining Location	=	12,280 Cu. Yds.	Topsoil Backfill	=	1,320 Cu. Yds.
TOTAL CUT	=	13,600 CU.YDS.	EXCESS MATERIAL	=	0 Cu. Yds.
FILL	=	11,670 CU.YDS.	(After Topsoil is Redistributed)		

NOTES:

Elev. Ungraded Ground At Loc. Stake = 7431'
FINISHED GRADE ELEV. AT LOC. STAKE = 7430.8'

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/11/94

API NO. ASSIGNED: 43-049-30016

WELL NAME: FEDERAL 24-1
OPERATOR: HUNT OIL COMPANY (N6240)

PROPOSED LOCATION:

SWNE 24 - T11S - R04E
SURFACE: 1971-FNL-2249-FEL
BOTTOM: 0780-FSL-0248-FWL
UTAH COUNTY
WILDCAT FIELD (001)

LEASE TYPE: FED
LEASE NUMBER: U-59088

INSPECT LOCATION BY: / /

TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

Y Plat
Y Bond: Federal [X State[] Fee[]
(Number 485100514089)
N Potash (Y/N)
N Oil shale (Y/N)
Water permit
(Number _____)
Y RDCC Review (Y/N)
(Date: _____)

LOCATION AND SITING:

X R649-2-3. Unit: UTU 71678X
 R649-3-2. General.
 R649-3-3. Exception.
 Drilling Unit.
Board Cause no: _____
Date: _____

COMMENTS: WATER PERMIT WILL BE REQUIRED

UNIT VALIDATION WELL UNIT PENDING.

STIPULATIONS: _____

CONFIDENTIAL

PERIOD


EXPIRED

ON 4-11-96

Note: Surface location is on Federal
lease U-60379.

STATE ACTIONS

Mail to:
RDCC Coordinator
116 State Capitol
Salt Lake City, Utah 84114

-
1. ADMINISTERING STATE AGENCY
OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
2. STATE APPLICATION IDENTIFIER NUMBER:
(assigned by State Clearinghouse)
-
3. APPROXIMATE DATE PROJECT WILL START:
Upon approval
-
4. AREAWIDE CLEARING HOUSE(s) RECEIVING STATE ACTIONS:
(to be sent out by agency in block 1)
Six County Commissioners Organization
-
5. TYPE OF ACTION: ☐ Lease ☒ Permit ☐ License ☐ Land Acquisition
☐ Land Sale ☐ Land Exchange ☐ Other _____
-
6. TITLE OF PROPOSED ACTION:
Application for Permit to Drill
-
7. Hunt Oil Company proposes to drill the Federal 24-1 well (wildcat) on federal lease U-59088 in Utah County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The U.S. Bureau of Land Management is the primary administrative agency in this action and must issue approval before operations commence.
-
8. LAND AFFECTED (site location map required) (indicate county)
SW/4 NE/4, Section 24, Township 11 South, Range 4 East, Utah County, Utah
-
9. HAS THE LOCAL GOVERNMENT(s) BEEN CONTACTED?
-
10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:
See Attachment
-
11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE:
-
12. FOR FURTHER INFORMATION, CONTACT: Frank R. Matthews
PHONE: 538-5340
13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL: 
DATE: 02/16/94 Petroleum Engineer
-

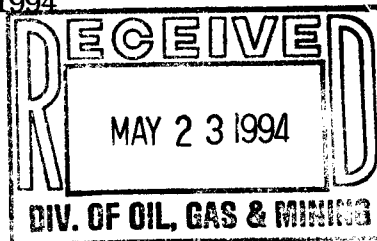
WOI187



HUNT OIL COMPANY

Fountain Place
1445 Ross at Field
Dallas, Texas 75202-2785
(214) 978-8000
Fax: (214) 978-8888
Telex: 6829258

May 18, 1994



FAX #801-359-3940

State of Utah
Division of Oil, Gas, & Mining
3555 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180

Attn: Mr. Frank Matthews

RE: Indianola Federal 24-1
Unorthodox Location

Gentlemen:

Please let this letter serve as notification that Hunt Oil Company is proposing the Indianola Federal 24-1 well located in the SE/4 NE/4 of Section 24, T11S-R4E, Utah County, Utah, and a proposed bottomhole location in the SW/4 SW/4 Section 13, T11S-R4E, Utah County, Utah.

Hunt Oil Company has under lease or has contract with the lessees of all leases within 460' of the location of our hole from the surface to bottomhole location. To be more exact, Hunt Oil Company has leases or contracts for all acreage covering the area of SE/4 Section 10, S/2 Section 11, S/2 Section 12, 13, 14, 15, 22, 23, 24, N/2 of 25, N/2 of 26, and all of 27 -T11S,R4E, Utah County, Utah. Therefore, it is Hunt Oil Company's statement that we have all approvals necessary from lease owners to support our location.

If additional information is needed regarding this request, please do not hesitate to contact the undersigned at 214-978-8657.

Sincerely,

HUNT OIL COMPANY

A handwritten signature in black ink, appearing to read "Bill Rex".

Bill Rex
Division Landman

pf

cc: Chuck Williams (HOC-Casper)



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

June 24, 1994

Hunt Oil Company
P.O. Box 3119
Casper, Wyoming 82602

Re: Federal 24-1 Well, Surface Location 1971' FNL, 2249' FEL, SW NE, Sec. 24,
T. 11 S., R. 4 E., Bottom Hole Location 780' FSL, 248' FWL, SW SW, Sec. 13, T.
11 S., R. 4 E., Utah County, Utah

Gentlemen:

Pursuant to Utah Code Ann. § 40-6-18, (1953, as amended), Utah Admin. R. 649-2-3, Application of Rules to Unit Agreements and R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules.
2. Notification to the Division within 24 hours after drilling operations commence.
3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or K. Michael Hebertson, Reclamation Specialist, (Home) (801)269-9212.



Page 2
Hunt Oil Company
Federal 24-1 Well
June 24, 1994

6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-049-30016.

Sincerely,



R.J. Firth
Associate Director

ldc
Enclosures
cc: Utah County Assessor
Bureau of Land Management, Salt Lake District Office
WOI1



United States Department of the Interior

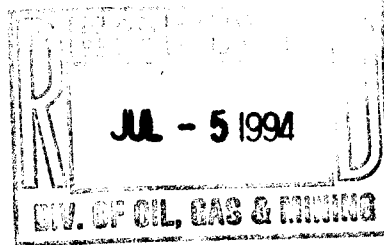
BUREAU OF LAND MANAGEMENT

Salt Lake District Office
2370 South 2300 West
Salt Lake City, Utah 84119

IN REPLY REFER TO:

UTU-59088
3160
(UT-024)

JUL -1 1994



Mr. Mike Hebertson
Division of Oil, Gas and Mining
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Dear Mr. Hebertson:

On January 19, 1994 we received an Application for Permit to Drill (APD) from Hunt Oil Company, to drill the Indianola Federal No. 24-1 wildcat well in T. 11 S., R. 4 E., Section 24, SLB&M. The well is located on lands jointly managed by the Manti La Sal National Forest, United States Forest Service (surface), and the Pony Express Resource Area, Bureau of Land Management (subsurface).

The Surface Use Plan of Operations (SUPO) was approved by the Forest Service on June 24, 1994, and the APD was subsequently approved by the BLM on that date. We have enclosed a copy of the APD with site location maps for your records.

If you have any questions, or require additional information, please feel free to contact me at (801) 977-4300, or Carter Reed of the Manti La Sal National Forest at (801) 637-2817.

43-049-30016

Sincerely,

Michael Ford
Pony Express Resource Area Geologist

Enclosure

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: HUNT OIL CO.

WELL NAME: HUNT OIL CO FEDERAL 24-1

API NO. 43-049-30016

Section 24 Township 11S Range 4E County UTAH

Drilling Contractor PARKER

Rig # 233

SPUDDED: Date 8/14/94

Time 6:30 PM

How ROTARY

Drilling will commence

Reported by BOB EVANS

Telephone #

Date 8/15/94 SIGNED JLT

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

U-59088

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

Indianola

8. Well Name and No.

Federal #24-1

9. API Well No.

43-049-30016

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Utah County
Utah

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

HUNT OIL COMPANY

3. Address and Telephone No.

P. O. Box 3119 Casper, WY 82602 307-237-8461

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1971' FNL & 2249' FEL (SWNE)
Section 24, T11S, R4E
S.L.B. & M.

CONFIDENTIAL

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Run 13 3/8" Conductor Pipe
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Ran 13 3/8" conductor pipe in 17 1/2" hole as follows:

4 joints 13 3/8", 54.5#, K-55, STC casing	171.90'
Less cutoff	-27.28'
Plus KB	20.50'
Casing set @	165.12' KB

Cemented with 200 sacks Premium cement containing 2% CaCl₂. Cement in place at 3:00 AM, 8/15/94.

14. I hereby certify that the foregoing is true and correct

Signed

Robert T. Evans

Title

Robert T. Evans
Senior Engineering Technician

Date

8/16/94

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

This 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

U-59088

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

Indianola

8. Well Name and No.

Federal #24-1

9. API Well No.

43-049-30016

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Utah County
Utah

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

HUNT OIL COMPANY

3. Address and Telephone No.

P. O. Box 3119 Casper, WY 82602 307-237-8461

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1971' FNL & 2249' FEL (SWNE)
Section 24, T11S, R4E
S.L.B. & M.

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

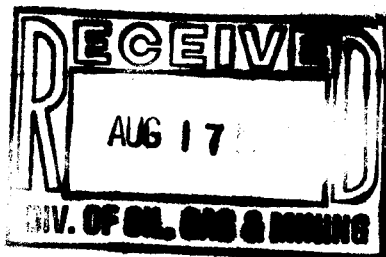
☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Notice of Spud

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

This well was spudded at 6:30 PM on 8/14/94.



14. I hereby certify that the foregoing is true and correct

Signed

Robert T. Evans

Title

Robert T. Evans
Senior Engineering Technician

Date

8/15/94

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

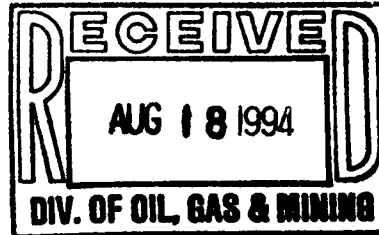
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side



August 15, 1994

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203



HUNT OIL COMPANY
800 Werner Court, Suite 200
P.O. Box 3119
Casper Wyoming 82602
(307) 237-8461
Fax: (307) 237-7669

Re: Form 6 - Entity Action Form
Form 7 - Report of Water Encountered
Federal #24-1
SWNE Section 24, T11S, R4E S.L.B. & M.
Utah County, Utah
UTU-59088

To Whom It May Concern:

Attached please find 1 copy of Form 6, "Entity Action Form" and 1 copy of Form 7, "Report of Water Encountered During Drilling" for the above referenced well.

If you are in need of additional information, please advise.

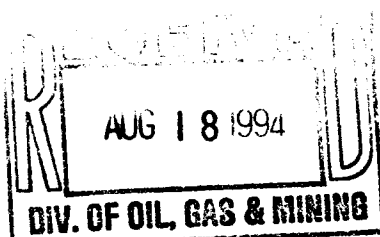
Yours truly,

HUNT OIL COMPANY

Robert T. Evans
Senior Engineering Technician

RTE:rte
Attachments

CORRESPONDENCE



OPERATOR HUNT OIL COMPANY
ADDRESS P.O. BOX 3119
CASPER, WY 82602

OPERATOR ACCT. NO. # 6240

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11657	43-049-30016	FEDERAL #24-1	SWNE	24	11S	4E	UTAH	8/14/94	
<p>WELL 1 COMMENTS: <i>Unit Entity 11657 added 8-22-94. (Indiana Unit) Lec</i></p> <p>NOTIFICATION OF SPUD</p>											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

Robert T. Evans
Signature ROBERT T. EVANS
SR. ENGINEERING TECH. 8/14/94
Title Date
Phone No. (307) 237-8461

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

1. Well name and number: FEDERAL #24-1

API number: 43-049-30016

2. Well Location: QQ SWNE Section 24 Township 11S Range 4E County UTAH

3. Well operator: HUNT OIL COMPANY

Address: P.O. BOX 3119

CASPER, WY 82602

Phone: 307-237-8461

4. Drilling contractor: PARKER DRILLING COMPANY

Address: P.O. BOX 1030

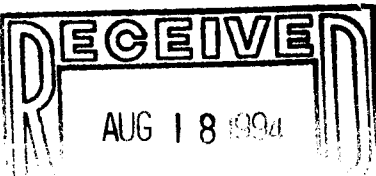
MILLS, WY 82644

Phone: 307-473-2480

5. Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
70	265	110 GAL/MIN	FRESH
		THIS WATER FLOW WAS ENCOUNTERED WHILE DRILLING THE WATER SUPPLY WELL WHICH IS ON THE SAME LOCATION.	

6. Formation tops: ARAPIEN - SURFACE



If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge.

Name & Signature: Robert T. Evans

ROBERT T. EVANS

Date: 8/15/94

Title: SR. ENGINEERING TECH.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

AUG 22 1994

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993
Name Designation and Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS OF OIL, GAS & MINING

U-59088

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

HUNT OIL COMPANY

3. Address and Telephone No.

P. O. Box 3119 Casper, WY 82602 307-237-8461

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1971' FNL & 2249' FEL (SWNE)
Section 24, T11S, R4E
S.L.B. & M.

7. If Unit or CA, Agreement Designation

Indianola

8. Well Name and No.

Federal #24-1

9. API Well No.

43-049-30016

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Utah County
Utah

CONFIDENTIAL

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Weekly summary
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

NOTE: All reports are as of 5:00 AM on the report date.

8/15/94 Spud at 6:30 PM, 8/14/94. Drill 17 1/2" hole from surface to 168'. Ran 13 3/8" conductor pipe (refer to Sundry Notice dated 8/16/94).

8/16/94 WOC 4 hours. Cut off 13 3/8" casing. Welded on 13 5/8" flange, nipped up 13 5/8" diverter and lines. Tagged cement at 155'. Drilled cement from 155' - 168'. Drill 12 1/4" hole from 168' - 591'.

8/17/94 Drill 12 1/4" hole from 591' - 1005'.

8/18/94 Drill 12 1/4" hole from 1005' - 1220'.

8/19/94 Drill 12 1/4" hole from 1220' - 1675'.

14. I hereby certify that the foregoing is true and correct

Signed Robert T. Evans

Title Robert T. Evans
Senior Engineering Technician

Date 8/19/94

(This space for Federal or State office use)

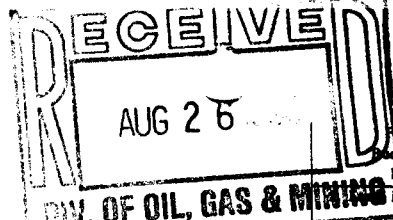
Approved by

Title

Date

Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
Bureau No. 1004-0135
Expires: March 31, 1993
Designation and Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS

U-59088

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

HUNT OIL COMPANY

3. Address and Telephone No.

P. O. Box 3119 Casper, WY 82602 307-237-8461

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1971' FNL & 2249' FEL (SWNE)
Section 24, T11S, R4E
S.L.B. & M.

6. If Indian, Allottee or Tribe Name

Indianola

8. Well Name and No.

Federal #24-1

9. API Well No.

43-049-30016

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Utah County
Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Run 9 5/8" Surface Casing
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

NOTE: All reports are as of 5:00 AM on the report date.

TD 2460'. Ran 9 5/8" surface casing in 12 1/4" hole as follows:

Howco float shoe	1.45'
1 jt. 9 5/8", 47#, L-80, LTC casing	38.76'
Howco float collar	1.00'
58 jts. 9 5/8", 47#, L-80, LTC casing	2423.87'
Total casing	2465.08'
Less cutoff	-25.58'
+KB	+20.50'
Casing set at	2460.00' KB

Cemented with 660 sacks HLC and 280 sacks Premium cement. Displaced cement with 177 bbls drilling mud. Had good mud returns while cementing. No cement to surface. Ran 1" to top of cement and cemented with 100 sacks Premium cement. Had good cement returns. Cement in place at 9:00 PM, 8/22/94.

14. I hereby certify that the foregoing is true and correct

Signed Robert T. Evans

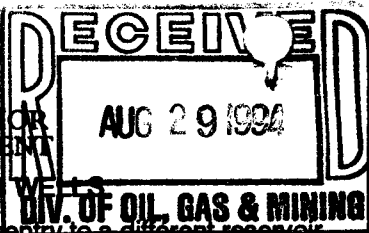
Title Robert T. Evans
Senior Engineering Technician

Date 8/23/94

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any: _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

5. Lease Designation and Serial No.

U-59088

6. If Indian, Allottee or Tribe Name

Do not use this form for proposals to drill or to deepen or reactivate a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

HUNT OIL COMPANY

3. Address and Telephone No.

P. O. Box 3119 Casper, WY 82602 307-237-8461

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1971' FNL & 2249' FEL (SWNE)
Section 24, T11S, R4E
S.L.B. & M.

7. If Unit or CA, Agreement Designation

Indianola

8. Well Name and No.

Federal #24-1

9. API Well No.

43-049-30016

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Utah County
Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Weekly Summary

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

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8/20/94 Drill 12 1/4" hole from 1675' - 1960'.

8/21/94 Drill 12 1/4" hole from 1960' - 2160'.

8/22/94 Drill 12 1/4" hole from 2160' - 2460'.

8/23/94 Ran and cemented 9 5/8" surface casing. (Refer to Sundry Notice dated 8/23/94).

8/24/94 Weld on 9 5/8" casing flange and test to 3500 psi. Nipple up BOP and choke manifold. Test BOP and manifold to 250 psi low and 5000 psi high. Test witnessed by Patty Ramsetter - BLM.

8/25/94 Tagged top of cement at 2393'. Tested casing and surface equipment to 3000 psi for 10 min. - held OK. Drill 8 1/2" hole from 2470' - 3071' MD.

8/26/94 Drill 8 1/2" hole from 3071' - 3449' MD.

14. I hereby certify that the foregoing is true and correct

Signed

Robert T. Evans

Robert T. Evans

Senior Engineering Technician

Date

8/26/94

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

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*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

U-59088

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

Indianola

8. Well Name and No.

Federal #24-1

9. API Well No.

43-049-30016

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Utah County
Utah

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

HUNT OIL COMPANY

3. Address and Telephone No.

P. O. Box 3119 Casper, WY 82602 307-237-8461

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1971' FNL & 2249' FEL (SWNE)
Section 24, T11S, R4E
S.L.B. & M.

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Weekly Summary

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

NOTE: All reports are as of 5:00 AM on the report date.

8/27/94 Drill 8 1/2" hole from 3449' - 3995' MD.

8/28/94 Drill 8 1/2" hole from 3995' - 4258' MD.

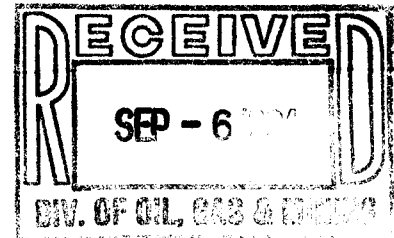
8/29/94 Drill 8 1/2" hole from 4258' - 4640' MD.

8/30/94 Drill 8 1/2" hole from 4640' - 4857' MD.

8/31/94 Drill 8 1/2" hole from 4857' - 5163' MD.

9/1/94 Drill 8 1/2" hole from 5163' - 5500' MD.

9/2/94 Drill 8 1/2" hole from 5500' - 5962' MD.



14. I hereby certify that the foregoing is true and correct

Signed

Robert T. Evans

Title

Robert T. Evans
Senior Engineering Technician

Date

9/2/94

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SEP 12 1994

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

Lease Designation and Serial No.

SUNDRY NOTICES AND REPORTS ON **VIEW OF OIL, GAS & MINING**

U-59088

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

HUNT OIL COMPANY

3. Address and Telephone No.

P. O. Box 3119 Casper, WY 82602 307-237-8461

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1971' FNL & 2249' FEL (SWNE)
Section 24, T11S, R4E
S.L.B. & M.

7. If Unit or CA, Agreement Designation

Indianola

8. Well Name and No.

Federal #24-1

9. API Well No.

43-049-30016

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Utah County
Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Weekly Summary

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

NOTE: All reports are as of 5:00 AM on the report date.

9/3/94 Drill 8 1/2" hole from 5862' - 6257' MD.
9/4/94 Drill 8 1/2" hole from 6257' - 6368' MD.
9/5/94 Drill 8 1/2" hole from 6368' - 6494' MD.
9/6/94 Drill 8 1/2" hole from 6494' - 6868' MD.
9/7/94 Drill 8 1/2" hole from 6868' - 6869' MD. Lost 3 cones. Mill on junk.
9/8/94 Mill on junk at TD 6869' MD. Ream with keyseat wiper from 2465' - 2932' MD, bit from 5933' - 6400' MD.
9/9/94 Ream keyseat. Run magnet - clean out junk. Start in hole with bit and mud motor.

14. I hereby certify that the foregoing is true and correct

Signed

Robert T. Evans

Title

Robert T. Evans
Senior Engineering Technician

Date

9/9/94

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
SEP 19 1994

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.

U-59088

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

Indianola

8. Well Name and No.

Federal #24-1

9. API Well No.

43-049-30016

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Utah County
Utah

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

HUNT OIL COMPANY

3. Address and Telephone No.

P. O. Box 3119 Casper, WY 82602 307-237-8461

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1971' FNL & 2249' FEL (SWNE)
Section 24, T11S, R4E
S.L.B. & M.

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Consturction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other Weekly Summary	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

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9/10/94 Drill 8 1/2" hole from 6868' - 7109' MD.
9/11/94 Drill 8 1/2" hole from 7109' - 7177' MD.
9/12/94 Drill 8 1/2" hole from 7177' - 7307' MD.
9/13/94 Drill 8 1/2" hole from 7307' - 7480' MD.
9/14/94 Drill 8 1/2" hole from 7480' - 7560' MD.
9/15/94 Drill 8 1/2" hole from 7560' - 7726' MD.
9/16/94 TD 7726' MD. Work tight hole and bridges.

14. I hereby certify that the foregoing is true and correct

Signed Robert T. Evans

Title Robert T. Evans
Senior Engineering Technician

Date 9/16/94

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

September 26, 1994

Chuck Williams
Hunt Oil Company
800 Werner Court, Suite 200
P.O. Box 3119
Casper, Wyoming 82602

Re: Drill Cuttings Disposal, Indianola Fed. 24-1, Section 24,
Township 11 South, Range 4 East, Utah County, Utah

Dear Mr. Williams:

You made a request on behalf of Hunt Oil Company to dispose of cuttings from the referenced well in a pit owned/operated by Mark Poulson and located in Section 19, Township 12 South, Range 4 East, Utah County, near Indianola, Utah.

After inspecting the site, the Division has no objection to applying drill cuttings to it. Since this is not a permitted commercial disposal facility any use of the site must be on a one time basis only and waste to be abandoned must meet the cleanup levels as outlined in the Division's guidance document for estimating cleanup levels (copy attached). Approval must also be obtained from the land owner.

If you have any questions concerning the Division's requirements, please contact me.

Sincerely,

Gil Hunt
Oil & Gas
Environmental Manager

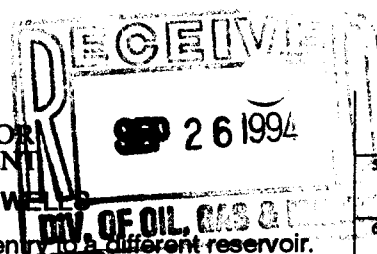
cc: R.J. Firth
well file



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

U-59088

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

Indianola

8. Well Name and No.

Federal #24-1

9. API Well No.

43-049-30016

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Utah County
Utah

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

HUNT OIL COMPANY

3. Address and Telephone No.

P. O. Box 3119 Casper, WY 82602 307-237-8461

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1971' FNL & 2249' FEL (SWNE)
Section 24, T11S, R4E
S.L.B. & M.

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Weekly Summary

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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NOTE: All reports are as of 5:00 AM on the report date.

9/17/94 Drill 8 1/2" hole from 7726' - 7910' MD.

9/18/94 Drill 8 1/2" hole from 7910' - 8000' MD.

9/19/94 Drill 8 1/2" hole from 8000' - 8106' MD.

9/20/94 Drill 8 1/2" hole from 8106' - 8254' MD.

9/21/94 Drill 8 1/2" hole from 8254' - 8406' MD.

9/22/94 Drill 8 1/2" hole from 8406' - 8540' MD.

9/23/94 Drill 8 1/2" hole from 8540' - 8745' MD.

14. I hereby certify that the foregoing is true and correct

Signed

Title

Robert T. Evans
Senior Engineering Technician

Date

9/23/94

(This space for Federal or State office use)

Approved by

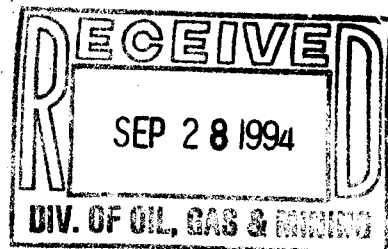
Title

Date

Conditions of approval, if any:

DOUBLE JACK TESTING & SERVICES, INC.

B.O.P. test Report



B.O.P. test performed on (date) 9/23/94

oil company Hunt O.Y. Co.

Well Name & Number INDIANOLA Ecd 24-1 43-049-30016

section 24

township 11S

range 4E

county CLARK

drilling contractor P.O. 233

oil company site representative DANNY

rig tool pusher JOHN

tested out of EVANSTON

Notified prior to test yes

copies of this test Report sent to: Blm on location w/ test

state

R/S

Hunt

original chart & test Report on file at: _____

tested by: DOUBLE JACK TESTING & SERVICES, INC.
108 PARKVIEW ROAD
P.O. BOX 2007
EVANSTON, WYOMING 82930

Double Jack Testir & Services Inc.

FIELD TICKET
No 11422

Accounting Office: P.O. Box 516 Shoshoni, WY 82649 (307) 876-9390
Field Operations: Shoshoni, WY (307) 876-2308
Rock Springs, WY (307) 382-4020
Evanston, WY (307) 789-9213
Vernal, UT (801) 781-0448

DATE 9/23/99
OPERATOR Hoot O.T.
RIG NAME & NO. PARKER DRIG 233
WELL NAME & NO. INDIANOLA FED 24-1

COUNTY UTAH STATE UTAH SECTION 24 TOWNSHIP 11S RANGE 4E

Items Tested:	LOW TEST PSI	TIME HELD MINUTES	HIGHEST PSI	TIME HELD MINUTES	
Top Pipe Rams	250	5min	5000	10min	Closing Unit PSI 300
Bottom Pipe Rams	250	5min	5000	10min	Closing Time of Rams 7.5cc
Blind Rams	250	5min	5000	10min	Closing Time of Annular 1.35cc
Annular B.O.P.	250	5min	2500	10min	Closed Casing Head Valve yes
Choke Manifold	250	5min	5000	10min	Set Wear Sleeve yes
Choke Line	250	5min	5000	10min	
Kill Line	250	5min	5000	10min	
Super Choke	250	5min	5000	10min	
Upper Kelly	250	5min	5000	10min	
Lower Kelly	250	5min	5000	10min	
Floor Valve	250	5min	5000	10min	
Dart Valve	no test				
Casing					

ADDITIONAL TESTS & COMMENTS

	TEST PLUG	10" OCT
	RET. TOOL	on location
	TOP SUB.	4 1/2 LF
	KELLY SUB.	4 1/2 LF
	X-OVER SUB.	2/1

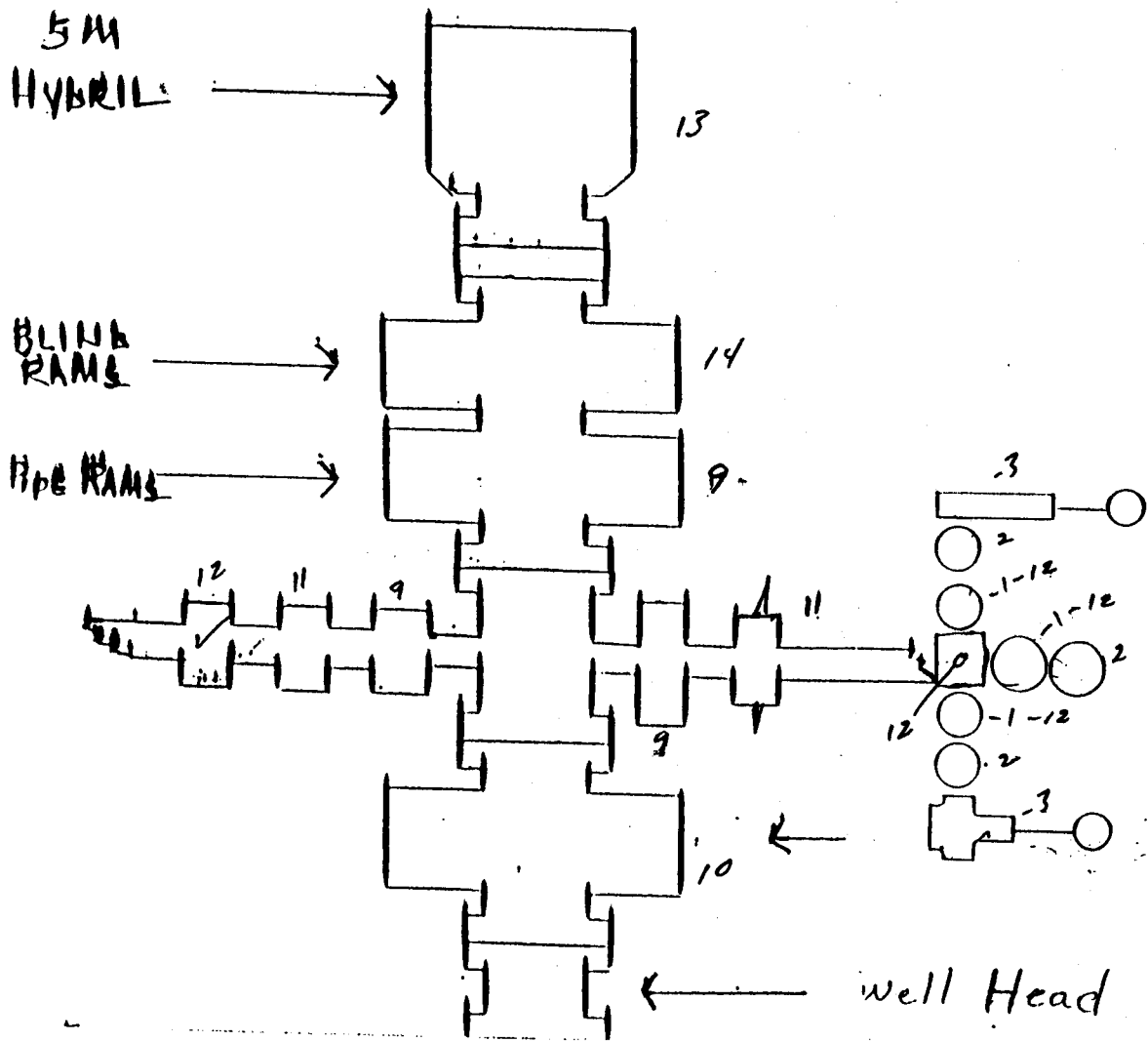
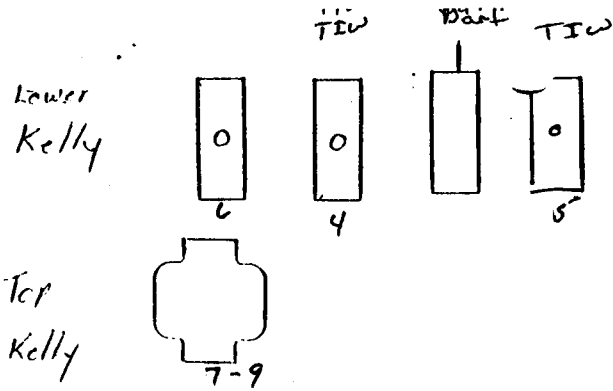
RATES
UNIT RATES 700.00 for the first 7 hrs on location
ADDITIONAL
MILEAGE 250 miles Round Trip E/Evanston WY @
METHANOL
OTHER

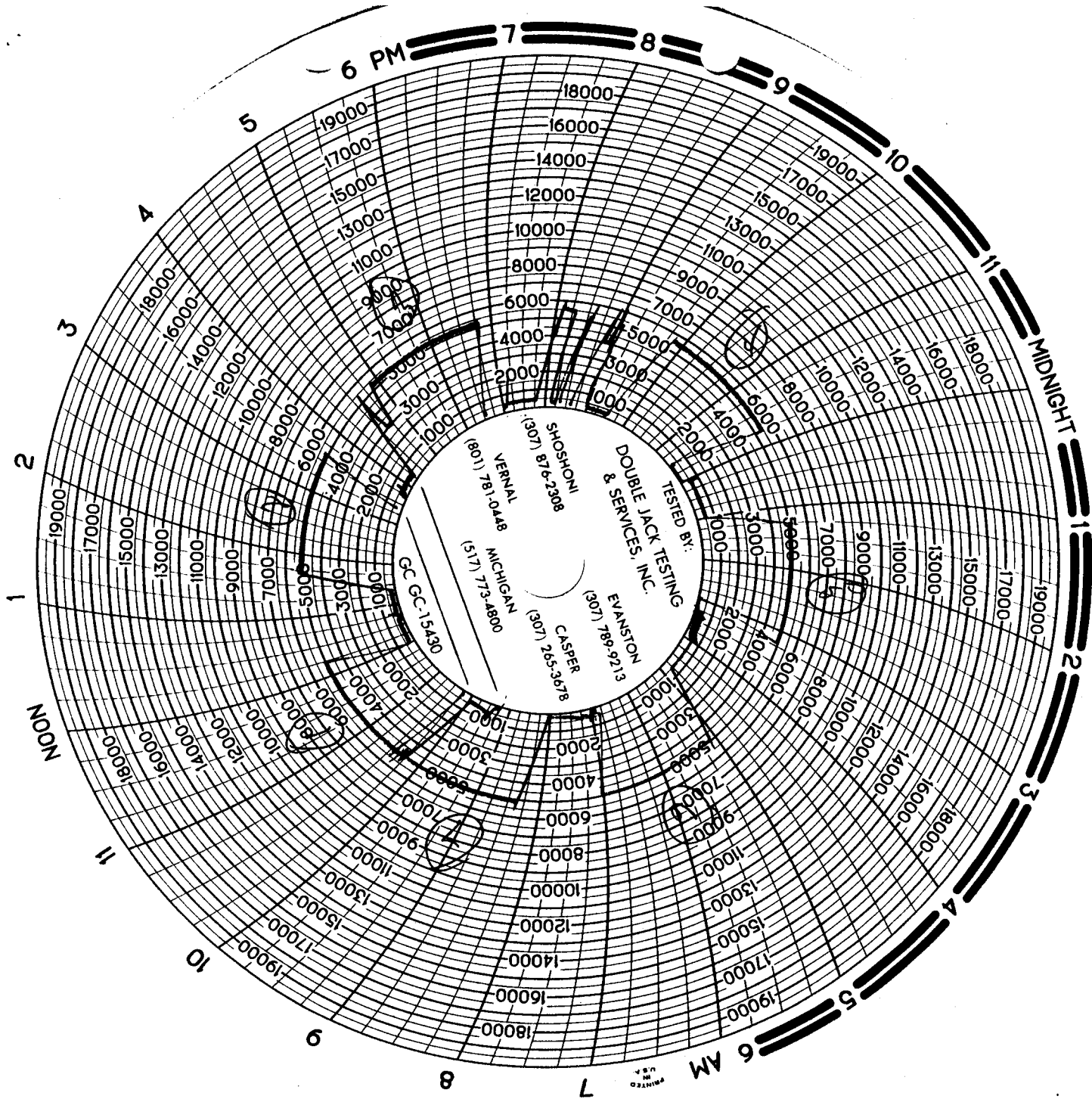
94-3639 AFE
PURCHASE ORDER #
O.W. [Signature]
COMPANY REPRESENTATIVE
TESTED BY
[Signature]
DOUBLE JACK TESTING UNIT

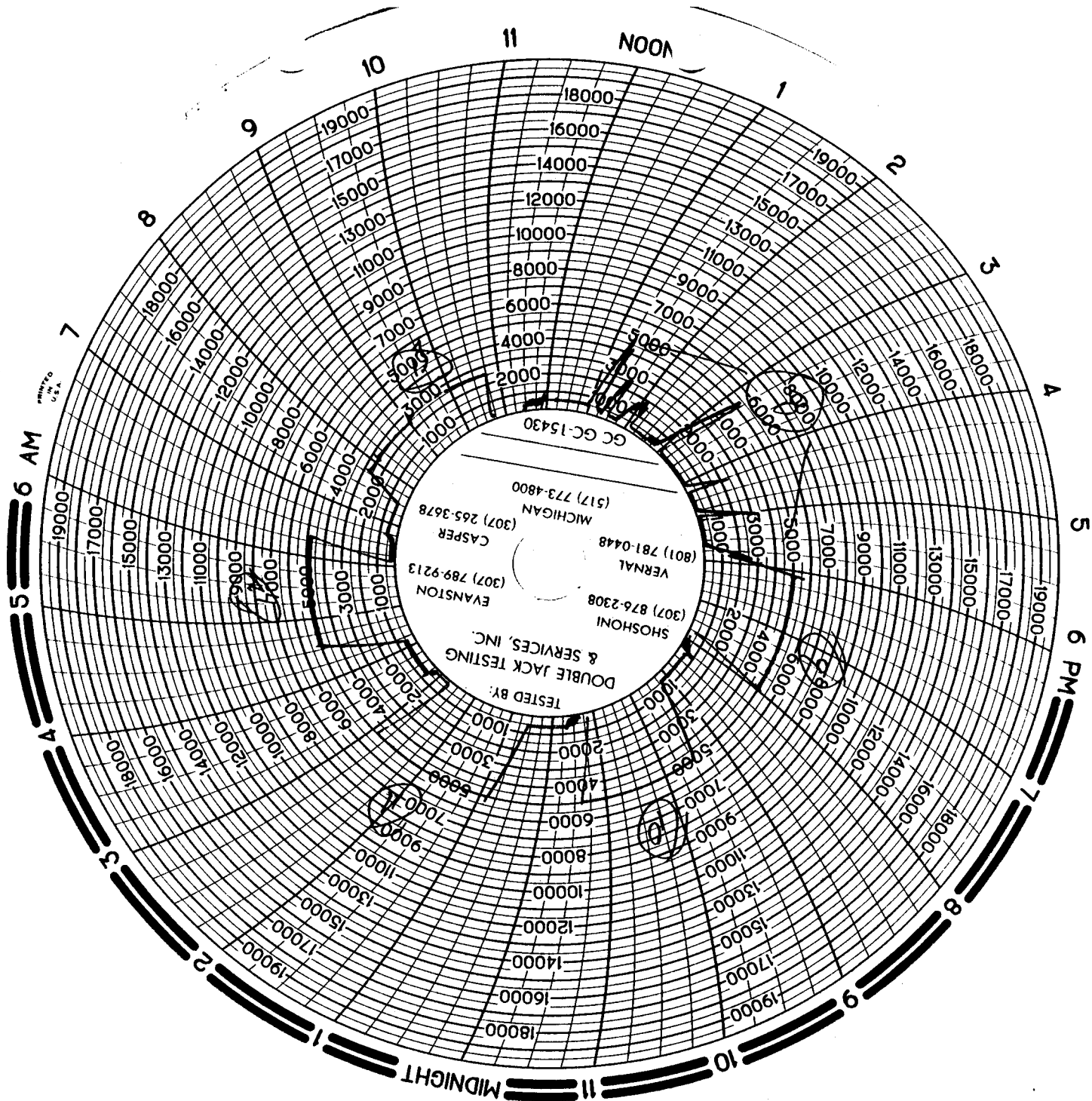
NOTICE TO ALL CUSTOMERS

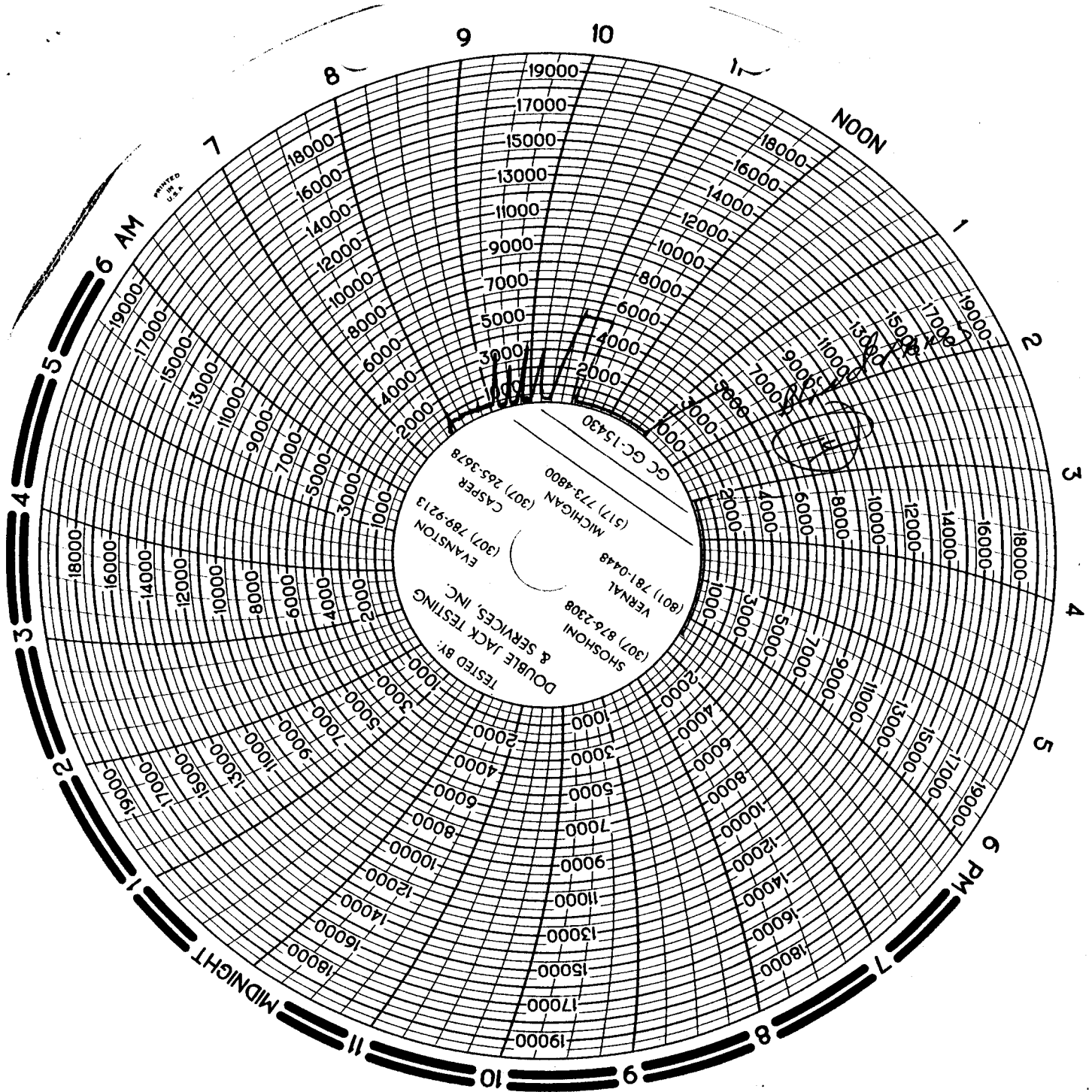
If this account shall not be paid when due and it is placed with an attorney for collection, or if suit be instituted for collection, the undersigned including attorney's fees and court cost in compliance with TRUTH IN LENDING AND THE UNIFORM CONSUMER CREDIT accounts, all amounts for service due and payable within THIRTY (30) DAYS from the receipt of an invoice for such services. THE LATE CHARGE is computed by a "periodic rate" 1-3/4% PER MONTH which is an ANNUAL PERCENTAGE RATE OF credit can be extended on unpaid delinquent accounts until the delinquent account is paid in full. The contractor will not be held that could not be reasonably anticipated in performing the work done as set forth above.

HUNT		TEST DATE	RIG # AND NAME
Test #	Time		
1	11:53 11:58	1st 3 manifold valves	
2	12:10 12:15	outside 3 manifold valves	
3	12:30 12:35	supper choke & manual choke	
4	1:25 1:36	TIW H1	
5	1:49 1:54	TIW H	
6	2:08 2:09	Lower Kelly Valve	
7	2:29 2:34	Upper Kelly Valve	
8		NO TEST	
9	3:28 3:58	TOP PIPES UPPER KELLY INSIDE KILL LINE & MANUAL CHOKER	
10	4:11 4:16	BOTTOM PIPE RAMS	
11	4:28 4:33	TOP PIPES HCR OUTSIDE KILL	
12	4:46 4:51	TOP PIPES VALVE FIRST 3 MANIFOLD VALVES & RISER	
13	5:03 5:08	H7 DRILL 2500 PSI	
14	5:28 5:53	BLIND RAMS INSIDE KILL FIRST 3 MANIFOLD VALVES	









UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

U-59088

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

Indianola

8. Well Name and No.

Federal #24-1

9. API Well No.

43-049-30016

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Utah County
Utah

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

HUNT OIL COMPANY

3. Address and Telephone No.

P. O. Box 3119 Casper, WY 82602 307-237-8461

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1971' FNL & 2249' FEL (SWNE)
Section 24, T11S, R4E
S.L.B. & M.

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Weekly Summary
☐ Change of Plans
☐ New Construction
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9/24/94 Drill 8 1/2" hole from 8745' - 8810' MD. Test BOP, manifold, top drive and all valves to 250 psi low / 5000 psi high.
Test annular to 250 psi low / 2500 psi high.

9/25/94 Drill 8 1/2" hole from 8810' - 8960' MD.

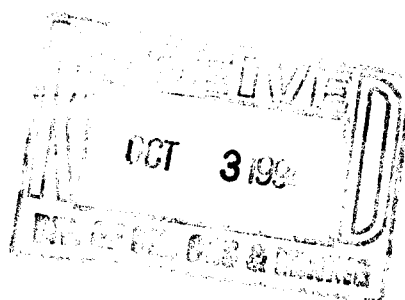
9/26/94 Drill 8 1/2" hole from 8960' - 9145' MD.

9/27/94 Drill 8 1/2" hole from 9145' - 9315' MD.

9/28/94 Drill 8 1/2" hole from 9315' - 9620' MD.

9/29/94 Drill 8 1/2" hole from 9620' - 9690' MD.

9/30/94 Drill 8 1/2" hole from 9690' - 9700' MD.



14. I hereby certify that the foregoing is true and correct

Signed Robert T. Evans

Title Senior Engineering Technician

Date 9/30/94

(This space for Federal or State office use)

Approved by

Title

Date

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FORM APPROVED
Budget Bureau No. 1004-0135
Expire: March 31, 1993

Lease Designation and Serial No.

U-59088

If Indian, Allottee or Tribe Name

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Utah

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10/1/94 TD 9700' MD. Wash & ream, condition hole.

10/2/94 TD 9700' MD. Wash & ream, condition hole.

10/3/94 Drill 8 1/2" hole from 9700' - 9724' MD.

10/4/94 TD 9724' MD. Fishing. Bit stuck at 5609' MD.

10/5/94 TD 9724' MD. Recover fish, condition hole.

10/6/94 TD 9724' MD. Wash & ream, condition hole. Bit stuck at 5976' MD. Back off with DiaLog.

10/7/94 TD 9724' MD. Recover fish. Trip in hole to 5300'. Wash & ream from 5300' - 5700'. Run in hole to 8546'. Wash & ream from 8546' - 9296' MD.

14. I hereby certify that the foregoing is true and correct

Signed

Robert T. Evans

Title

Robert T. Evans
Senior Engineering Technician

Date

10/7/94

(This space for Federal or State office use)

Approved by

Title

Date

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCT 17 1994

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Budget Bureau No. 1004-0135
Expires: March 31, 1993

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TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Run Intermediate Casing</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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Run 7" intermediate casing as follows:

1 Halliburton Down Jet Float Shoe	1.30
2 Jts. 7" O.D., 26#, L-80, LT&C casing	83.05
1 Halliburton Float Collar	.90
128 Jts. 7" O.D., 26#, L80, LT&C casing	5624.28
1 Multi-Stage Cementer	2.59
59 Jts. 7" O.D., 26#, L-80, LT&C casing	2646.60
26 Jts. 7" O.D., 26#, CF-95, LT&C casing	1072.65
215 Jt. Total	9431.36
Less Cutoff Jt.	-40.18
Plus KB	+20.50
Casing Landed @	9411.68

Cemented 1st stage with 20 BFW and 20 bbls SD-spacer ahead of 170 sacks of Hi-Fill followed by 320 sacks of 50/50 Poz with 0.2% CFR-3, 0.5% HALAD-344 and 0.2% HR-5. Displaced with 375 BM and got cement returns to surface. Appears that stage tool came open while washing down the casing or from the wiper plug displacement.

Circulated cement out of annulus and conditioned contaminated mud. Cemented 2nd stage with 20 BFW and 20 bbls SD-spacer ahead of 210 sacks of Hi-Fill followed by 100 sacks of 50/50 Poz with 0.2% CFR-3, 0.5% HALAD-344 and 0.2% HR-5. Displaced with 141.5 BM.

Cement in place at 12:30 PM, 10/13/94.

14. I hereby certify that the foregoing is true and correct

Signed Robert T. Evans Title Senior Engineering Technician Date 10/14/94

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any: _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
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OCT 17 1994

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Expires: March 31, 1993

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P. O. Box 3119 Casper, WY 82602 307-237-8461

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10/8/94 TD 9740' MD - SLM correction from 9724' MD. Circulate and condition hole. Run Dual Induction-Sonic-Caliper-GR/SP from 9097' - 2460'.

10/9/94 TD 9740' MD. Circulate and condition hole.

10/10/94 TD 9740' MD. Attempt to run dipmeter - would not go. Circulate and condition hole.

10/11/94 TD 9740' MD. Run dipmeter from 8950' - 2450'.

10/12/94 TD 9740' MD. Circulate and condition hole to run 7" casing.

10/13/94 TD 9740' MD. Run 7" intermediate casing. Cement 1st stage - refer to Sundry Notice dated 10/14/94.

10/14/94 TD 9740' MD. Cement 2nd stage - refer to Sundry Notice dated 10/14/94. Cut off casing, nipped up casing spool and tested to 3200 psi. Nipple up BOP. Change pipe rams to 3-1/2". Tested BOP and choke manifold to 300 psi low / 5000 psi high. Annular would not test. Will change out element.

14. I hereby certify that the foregoing is true and correct

Signed

Robert T. Evans

Title

Robert T. Evans
Senior Engineering Technician

Date

10/14/94

(This space for Federal or State office use)

Approved by

Title

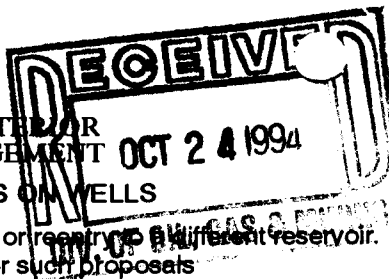
Date

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CONFIDENTIAL

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10/15/94 Tag cement at 3689' - test casing to 3000 psi. Drill cement, plugs and DV tool from 3689' - 3699'. RIH to 3835'. TOH. Change element in annular.
10/16/94 TIH to 9326'. Drill cement, float collar and shoe at 9411'. Wash to bottom. TOH with bit. Set RTTS packer at 3780'. Pumped down casing and through DV tool at 3.75 BPM and 500 psi for 30 minutes. Unset packer, circulated casing and pulled packer.
10/17/94 Set retainer at 9285'. Circulated and conditioned hole around casing and out DV tool at 3700'. Cemented casing with 150 sacks Class "G", 0.5% CFR, 0.1% HR5. Pulled 2 stands and circulated clean. Set packer at 3210'. Squeezed DV tool with 100 sacks Class "G", 0.3% CFR3, 0.2% HALAD 344. WOC 6 hours. Bled off pressure, layed down packer.
10/18/94 Washed through ratty cement to 3700'. Attempted to test DV tool to 500 psi - would not hold. TIH to 9249'. Pulled bit and ran packer to 3215'.
10/19/94 Set packer at 3500' and squeezed with 100 sacks. WOC 4 hours. Pulled packer, RIH open-ended to 3715'. Spotted 100 sacks with 0.3% CaCl2 from 3715' - 3215'. Squeezed 17 sacks into formation. SI holding 2000 psi.
10/20/94 Tag cement at 3487'. Drill cement from 3487' - 3990' and 9249' - 9265'. Tested casing - established rate of 1 BPM at 1600 psi. Spotted 100 sacks Class "H" with 3% CaCl2 from 3715' - 3165'. Squeezed 1-1/2 bbls (7 sacks). SI with 3100 psi.
10/21/94 WOC 12 hours. Tag cement at 3386'. Drilled cement from 3386' - 3733' and 3775' - 3815'.

14. I hereby certify that the foregoing is true and correct

Signed Robert T. Evans

Title Senior Engineering Technician

Date 10/21/94

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title

Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCT 3 1994

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NOTE: All reports are as of 5:00 AM on the report date.

10/22/94 Unable to test casing without pressure leak-off. Located casing leak from 8874' - 8967'.

10/23/94 Ran packer with 10 joints of tailpipe. End of tailpipe at 8967'. Spotted 50 sacks Type 5 Premium Plus with 0.2% CFR-3 and 0.3% HALAD-344 from 8967' - 8692'. Pulled end of tailpipe to 8626' (packer at 8311'). Reverse circulated bottoms up. Set packer and pumped 3/4 bbl (3.5 sacks) away at 4000 psi. WOC 8 hours. Held 4000 psi for 1st 4 hours, then reduced to 2250 psi for final 4 hours. Layed down packer and tailpipe. Tagged cement with bit at 8655'.

10/24/94 TD 9756' MD (SLM correction). Drilled cement from 8655' - 8715'. Washed down to top of cement at 9265'. Tested casing to 2250 psi. Drilled cement from 9265' - 9286'. Drilled retainer and cement to 9410'. Washed and reamed from 9410' - 9756'. Pulled bit into casing and tested formation to leakoff of 10.7 ppg with 500 psi at 8830' TVD (9478' MD). Ran CBL, TIH with directional drilling assembly.

10/25/94 Drill 6-1/8" hole from 9756' - 9924' MD.

10/26/94 Drill 6-1/8" hole from 9924' - 10,148' MD.

10/27/94 Drill 6-1/8" hole from 10,148' - 10,270' MD.

10/28/94 Drill 6-1/8" hole from 10,270' - 10,484' MD.

14. I hereby certify that the foregoing is true and correct

Signed

Robert T. Evans

Title

Robert T. Evans
Senior Engineering Technician

Date

10/28/94

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

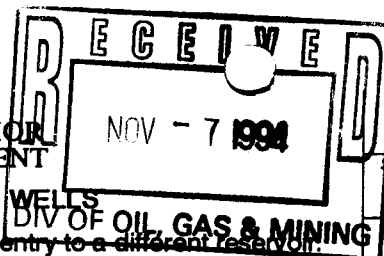
Title

Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

Lease Designation and Serial No.

U-59088

If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

HUNT OIL COMPANY

3. Address and Telephone No.

P. O. Box 3119 Casper, WY 82602 307-237-8461

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1971' FNL & 2249' FEL (SWNE)
Section 24, T11S, R4E
S.L.B. & M.

7. If Unit or CA, Agreement Designation

Indianola

8. Well Name and No.

Federal #24-1

9. API Well No.

43-049-30016

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Utah County
Utah

CONFIDENTIAL

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Weekly Summary

- ☐ Change of Plans
☐ New Consturction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

NOTE: All reports are as of 5:00 AM on the report date.

10/29/94 Drill 6-1/8" hole from 10,484' - 10,819' MD.

10/30/94 Drill 6-1/8" hole from 10,819' - 10,884' MD.

10/31/94 Drill 6-1/8" hole from 10,884' - 10,926' MD.

11/01/94 Drill 6-1/8" hole from 10,926' - 10,990' MD.

11/02/94 Drill 6-1/8" hole from 10,990' - 11,024' MD.

11/03/94 Drill 6-1/8" hole from 11,024' - 11,038' MD.

11/04/94 Drill 6-1/8" hole from 11,038' - 11,073' MD.

14. I hereby certify that the foregoing is true and correct

Signed

Robert T. Evans

Title

Robert T. Evans
Senior Engineering Technician

Date

11/4/94

(This space for Federal or State office use)

Approved by

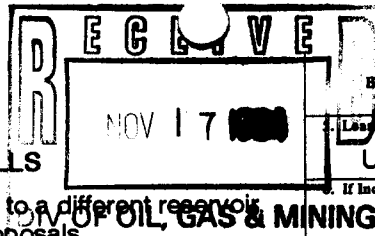
Conditions of approval, if any:

Title

Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993
1. Lease Designation and Serial No.
U-59088
2. If Indian, Allottee or Tribe Name

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

HUNT OIL COMPANY

3. Address and Telephone No.

P. O. Box 3119 Casper, WY 82602 307-237-8461

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1971' FNL & 2249' FEL (SWNE)
Section 24, T11S, R4E
S.L.B. & M.

7. If Unk or CA, Agreement Designation

Indianola

8. Well Name and No.

Federal #24-1

9. API Well No.

43-049-30016

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Utah County
Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

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☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

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☐ Casing Repair
☐ Altering Casing
☒ Other Weekly Summary

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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NOTE: All reports are as of 5:00 AM on the report date.

11/5/94 Drill 6-1/8" hole from 11,073' - 11,161' MD.

11/6/94 Drill 6-1/8" hole from 11,161' - 11,256' MD.

11/7/94 Drill 6-1/8" hole from 11,256' - 11,323' MD.

11/8/94 Drill 6-1/8" hole from 11,323' - 11,367' MD.

11/9/94 Drill 6-1/8" hole from 11,367' - 11,517' MD.

11/10/94 Drill 6-1/8" hole from 11,517' - 11,580' MD.

11/11/94 Drill 6-1/8" hole from 11,580' - 11,705' MD.

14. I hereby certify that the foregoing is true and correct

Signed

Robert T. Evans

Title

Robert T. Evans
Senior Engineering Technician

Date

11/11/94

(This space for Federal or State office use)

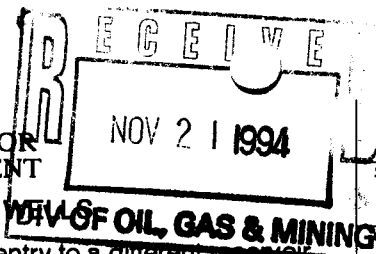
Approved by

Title

Date

Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

U-59088

If Indian, Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

HUNT OIL COMPANY

3. Address and Telephone No.

P. O. Box 3119 Casper, WY 82602 307-237-8461

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1971' FNL & 2249' FEL (SWNE)
Section 24, T11S, R4E
S.L.B. & M.

7. If Unit or CA, Agreement Designation

Indianola

8. Well Name and No.

Federal #24-1

9. API Well No.

43-049-30016

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Utah County
Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
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☐ Casing Repair
☐ Altering Casing
☒ Other Weekly Summary

☐ Change of Plans
☐ New Construction
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11/12/94 Drill 6-1/8" hole from 11,705' - 11,768' MD.

11/13/94 Drill 6-1/8" hole from 11,768' - 11,844' MD.

11/14/94 Test BOP's and valves to 250 psi/low and 5000 psi/high - tested OK. Hydril would not test. Repair Hydril.

11/15/94 Test Hydril to 250 psi/low and 2500 psi/high. Drill 6-1/8" hole from 11,844' - 11,883' MD.

11/16/94 Drill 6-1/8" hole from 11,883' - 11,896' MD.

11/17/94 TD 11,896'. Wash, ream and work pipe from 10,960' - 11,893' MD.

11/18/94 Drill 6-1/8" hole from 11,896' - 11,926' MD.

14. I hereby certify that the foregoing is true and correct

Signed

Title

Robert T. Evans
Senior Engineering Technician

Date

11/18/94

(This space for Federal or State office use)

Approved by

Title

Date

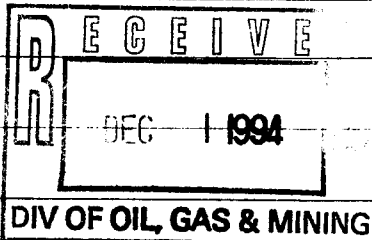
Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

U-59088

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

Indianola

8. Well Name and No.

Federal #24-1

9. API Well No.

43-049-30016

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Utah County
Utah

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

HUNT OIL COMPANY

3. Address and Telephone No.

P. O. Box 3119 Casper, WY 82602 307-237-8461

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1971' FNL & 2249' FEL (SWNE)
Section 24, T11S, R4E
S.L.B. & M.

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
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11/19/94 Drill 6-1/8" hole from 11,926' - 11,972' MD.

11/20/94 Drill 6-1/8" hole from 11,972' - 12,040' MD.

11/21/94 Drill 6-1/8" hole from 12,040' - 12,162' MD.

11/22/94 Drill 6-1/8" hole from 12,162' - 12,205' MD.

11/23/94 Drill 6-1/8" hole from 12,205' - 12,266' MD.

11/24/94 Drill 6-1/8" hole from 12,266' - 12,378' MD.

11/25/94 Drill 6-1/8" hole from 12,378' - 12,422' MD.

CONFIDENTIAL

14. I hereby certify that the foregoing is true and correct

Signed Robert T. Evans

Title Senior Engineering Technician

Date 11/28/94

(This space for Federal or State office use)

Approved by

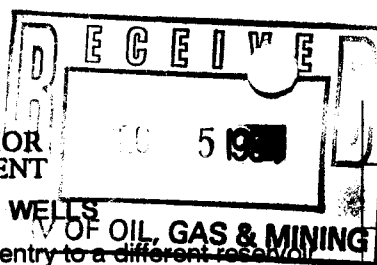
Title

Date

Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

Lease Designation and Serial No.

U-59088

If Indian, Allottee or Tribe Name

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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

HUNT OIL COMPANY

3. Address and Telephone No.

P. O. Box 3119 Casper, WY 82602 307-237-8461

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1971' FNL & 2249' FEL (SWNE)
Section 24, T11S, R4E
S.L.B. & M.

7. If Unit or CA. Agreement Designation

Indianola

8. Well Name and No.

Federal #24-1

9. API Well No.

43-049-30016

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Utah County
Utah

CONFIDENTIAL

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
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☐ Plugging Back
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☐ New Construction
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☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

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NOTE: All reports are as of 5:00 AM on the report date.

11/26/94 Drill 6-1/8" hole from 12,422' - 12,590' MD.

11/27/94 Drill 6-1/8" hole from 12,590' - 12,609' MD.

11/28/94 Drill 6-1/8" hole from 12,609' - 12,655' MD.

11/29/94 Drill 6-1/8" hole from 12,655' - 12,770' MD.

11/30/94 Drill 6-1/8" hole from 12,770' - 12,838' MD.

12/01/94 Drill 6-1/8" hole from 12,838' - 12,899' MD.

12/02/94 Drill 6-1/8" hole from 12,899' - 13,007' MD.

14. I hereby certify that the foregoing is true and correct

Signed

Robert T. Evans

Title

Robert T. Evans
Senior Engineering Technician

Date

12/2/94

(This space for Federal or State office use)

Approved by

Title

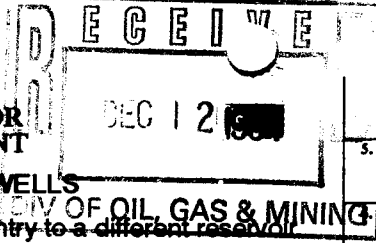
Date

Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

UTU-59088

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

CONFIDENTIAL

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

HUNT OIL COMPANY

3. Address and Telephone No.

P. O. Box 3119 Casper, WY 82602 307-237-8461

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1971' FNL & 2249' FEL (SWNE)
Section 24, T11S, R4E
S.L.B. & M.

7. If Unit or CA, Agreement Designation

Indianola

8. Well Name and No.

Federal #24-1

9. API Well No.

43-049-30016

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Utah County
Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

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☐ Conversion to Injection
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12/03/94 Drill 6-1/8" hole from 13,007' - 13,053' MD.

12/04/94 Drill 6-1/8" hole from 13,053' - 13,140' MD.

12/05/94 Drill 6-1/8" hole from 13,140' - 13,215' MD.

12/06/94 Drill 6-1/8" hole from 13,215' - 13,326' MD.

12/07/94 Lost 3 cones. Mill on junk from 13,326' - 13,328' MD.

12/08/94 Fish for cones.

12/09/94 Fish for cones.

14. I hereby certify that the foregoing is true and correct

Signed

Robert T. Evans

Title

Robert T. Evans
Senior Engineering Technician

Date

(This space for Federal or State office use)

Approved by

Title

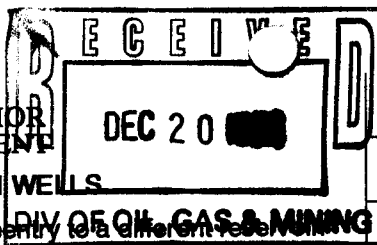
Date

Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different depth.
Use "APPLICATION FOR PERMIT—" for such proposals



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

6. Lease Designation and Serial No.

UTU-59088

5. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

Indianola

8. Well Name and No.

Federal #24-1

9. API Well No.

43-049-30016

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Utah County
Utah

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

HUNT OIL COMPANY

3. Address and Telephone No.

P. O. Box 3119 Casper, WY 82602 307-237-8461

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1971' FNL & 2249' FEL (SWNE)
Section 24, T11S, R4E
S.L.B. & M.

CONFIDENTIAL

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TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

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12/10/94 Drill 6-1/8" hole from 13,328' - 13,333' MD.

12/11/94 Drill 6-1/8" hole from 13,333' - 13,400' MD.

12/12/94 Drill 6-1/8" hole from 13,400' - 13,474' MD.

12/13/94 Drill 6-1/8" hole from 13,474' - 13,505' MD. Condition hole to log.

12/14/94 Logging

12/15/94 Logging

12/16/94 Finish logging. Test BOP, manifold, floor valves and kill lines to 5000 psi high / 250 psi low. Test annular to 2550 psi high / 250 psi low.

14. I hereby certify that the foregoing is true and correct

Signed

Robert T. Evans

Title

Robert T. Evans
Senior Engineering Technician

Date

12/16/94

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry on a different
Use "APPLICATION FOR PERMIT—" for such proposals

DIV OF OIL, GAS & MINING

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

U - 59088

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

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P. O. Box 3119 Casper, WY 82602 307-237-8461

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SECTION 24, T11S, R4E S.L.B. & M.

7. If Unit or CA, Agreement Designation

8. Well Name and No.

INDIANOLA FED. #24-1

9. API Well No.

43-049-30016

10. Field and Pool, or Exploratory Area

WILDCAT

11. County or Parish, State

UTAH COUNTY
UTAH

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☐ New Construction
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☐ Conversion to Injection
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13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

NOTE: All reports are as of 5:00 a.m. on the report date.

12/17/94 - Wash & Ream to 13,505'. Continue drilling 6-1/8" hole from 13,505' to 13,605'.
12/18/94 - Continue drilling 6-1/8" hole from 13,605' to 13,760'.
12/19/94 - Continue drilling 6-1/8" hole from 13,760' to 13,836'.
12/20/94 - Continue drilling 6-1/8" hole from 13,836' to 13,971'.
12/21/94 - Drill from 13,971' to 13,986', wash & ream to 13,986'. Continue drilling 6-1/8" hole to 14,029'.
12/22/94 - Continue drilling 6-1/8" hole from 14,029' to 14,109'.
12/23/94 - Continue drilling 6-1/8" hole from 14,109' to 14,152'. Twist off.
12/24/94 - Fishing
12/25/94 - Continue drilling 6-1/8" hole from 14,152' to 14,234'.
12/26/94 - Continue drilling 6-1/8" hole from 14,234' to 14,298'.
12/27/94 - Continue drilling 6-1/8" hole from 14,298' to 14,410'.

14. I hereby certify that the foregoing is true and correct

Signed

Title

TERRIE L. MORRISON
ENGINEERING TECHNICIAN

Date

12/27/94

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

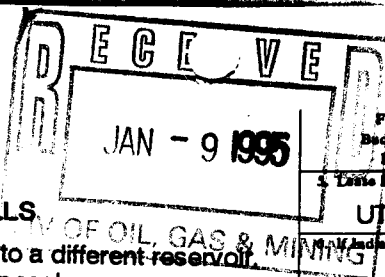
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

UTU-59088

6. Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

HUNT OIL COMPANY

3. Address and Telephone No.

P. O. Box 3119 Casper, WY 82602 307-237-8461

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1971' FNL & 2249' FEL (SWNE)
Section 24, T11S, R4E
S.L.B. & M.

7. If Unit or CA, Agreement Designation

Indianola

8. Well Name and No.

Federal #24-1

9. API Well No.

43-049-30016

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Utah County
Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other Weekly Summary	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

NOTE: All reports are as of 5:00 AM on the report date.

12/28/94 Drill 6-1/8" hole from 14,410' - 14,475' MD.

12/29/94 Drill 6-1/8" hole from 14,475' - 14,604' MD.

12/30/94 Jar on stuck pipe - pipe parted. Fishing

14. I hereby certify that the foregoing is true and correct.

Signed Robert T. Evans Title

Robert T. Evans
Senior Engineering Technician

Date 12/30/94

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

IAN - 9 1990

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Utah

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TYPE OF ACTION

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☒ Other Weekly Summary

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12/31/94 TD 14,604' MD - Fishing

01/01/95 TD 14,604' MD - Fishing

01/02/95 TD 14,604' MD - Fishing

01/03/95 TD 14,604' MD - Fishing

01/04/95 TD 14,604' MD - Fishing

01/05/95 TD 14,604' MD - Mill on junk

01/06/95 TD 14,604' MD - Mill on junk

14. I hereby certify that the foregoing is true and correct

Signed

Robert T. Evans

Title

Robert T. Evans
Senior Engineering Technician

Date

1/6/95

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JAN 17 1995

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

5. Lease Designation and Serial No.

UTU-59088

Indian, Allottee or Tribe Name

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Indianola

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Federal #24-1

9. API Well No.

43-049-30016

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Wildcat

11. County or Parish, State

Utah County
Utah

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☒ Subsequent Report
☐ Final Abandonment Notice

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01/07/95 TD 14,604' MD - Parted drill pipe - Fishing

01/08/95 TD 14,604' MD - Fishing

01/09/95 TD 14,604' MD - Fishing

01/10/95 TD 14,604' MD - Fishing

01/11/95 Recovered fish. Drill 6-1/8" hole from 14,604' - 14,615' MD.

01/12/95 Drill 6-1/8" hole from 14,615' - 14,724' MD.

01/13/95 Logging

14. I hereby certify that the foregoing is true and correct

Signed

Robert T. Evans

Title

Robert T. Evans
Senior Engineering Technician

Date

1/13/95

(This space for Federal or State office use)

Approved by

Title

Date

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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RECEIVED
JAN 23 1995
FORM APPROVED
Bureau No. 1004-0135
Expires: March 31, 1993
5. Lease Designation and Serial No. **59088**
6. Indian Allottee or Tribe Name

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NOTE: All reports are as of 5:00 AM on the report date.

01/14/95 TD 14,724' MD - Logging
01/15/95 TD 14,724' MD - Logging
01/16/95 TD 14,724' MD - Logging
01/17/95 TD 14,724' MD - Logging
01/18/95 Condition hole. Start running 5" liner.
01/19/95 Finish running 5" liner.
01/20/95 Lay down drill pipe, nipple down BOP, install tubing head.

14. I hereby certify that the foregoing is true and correct

Signed

Robert T. Evans

Title

Robert T. Evans
Senior Engineering Technician

Date

1/20/95

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

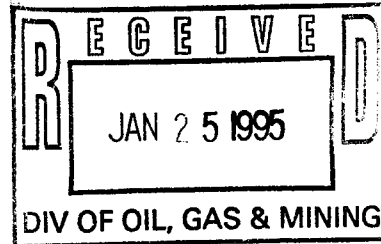


January 20, 1995

HUNT OIL COMPANY

Fountain Place
1445 Ross at Field
Dallas, Texas 75202-2785
(214) 978-8000
Fax: (214) 978-8888
Telex: 6829258

State of Utah
Department of Natural Resources
Division of Oil, Gas, and Mining
355 W. North Temple
Three Triad Center, Suite 350
Salt Lake City, Utah 84180-1203



Attn: Ms. Vicki Carney

RE: Request for Confidentiality
Well Log and Drilling Information Filing
Federal 24-1 Well
Indianola Prospect
Utah County, Utah

Dear Ms. Carney:

Hunt Oil Company, as Operator, will soon be filing all required records and reports pertained to the referenced well. We have not yet completed the evaluation of all drilling results and, therefore, request that all well logs and additional information be kept confidential for the maximum period of time allowed.

Please let me know if Hunt Oil Company needs to make any additional further filings or if other requirements are necessary for our request of confidentiality.

Thank you in advance for your consideration of our request.

Sincerely,

HUNT OIL COMPANY

Dale J. Hostenske
Central Division Exploration Manager

DJH:BR/pf

cc: George Roth (HOC-Dallas)
Bill Rex (HOC-Dallas)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
JAN 26 1995
BUREAU OF OIL, GAS & MINING

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993
Lease Designation and Serial No.
UTU-59088
Indian, Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS

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SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

HUNT OIL COMPANY

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Federal #24-1

9. API Well No.

43-049-30016

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Utah County
Utah

CONFIDENTIAL

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Run 5" liner

- ☐ Change of Plans
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☐ Dispose Water

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Please refer to the attached lined detail.

14. I hereby certify that the foregoing is true and correct

Signed Robert T. Evans

Title Senior Engineering Technician

Date 1/20/95

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

Indianola Federal #24-1

Liner Detail

TD 14,724' MD. Ran 5" liner as follows:

1 Down jet shoe	2.10
1 Float collar	1.73
1 Joint 5", 18#, L-80, STL casing with landing collar	43.03
36 Joints 5", 18#, L-80, STL casing	1,562.61
1 X-over joint	42.80
47 Joints 5", 18#, L-80, SLX casing	2,031.28
1 X-over pup joint	19.35
1 ECP packer	8.75
1 X-over pup joint	9.75
40 Joints 5", 18#, L-80, SLX casing	1,737.23
1 X-over	1.10
1 Liner hanger	6.76
1 5" PBR	10.02
1 Setting sleeve	14.30
Total liner	<hr/> 5,490.81

Landed liner at 14,606.99' MD

Top of external casing packer at 10,895.30' MD

Top of liner hanger at 9,140.59' MD

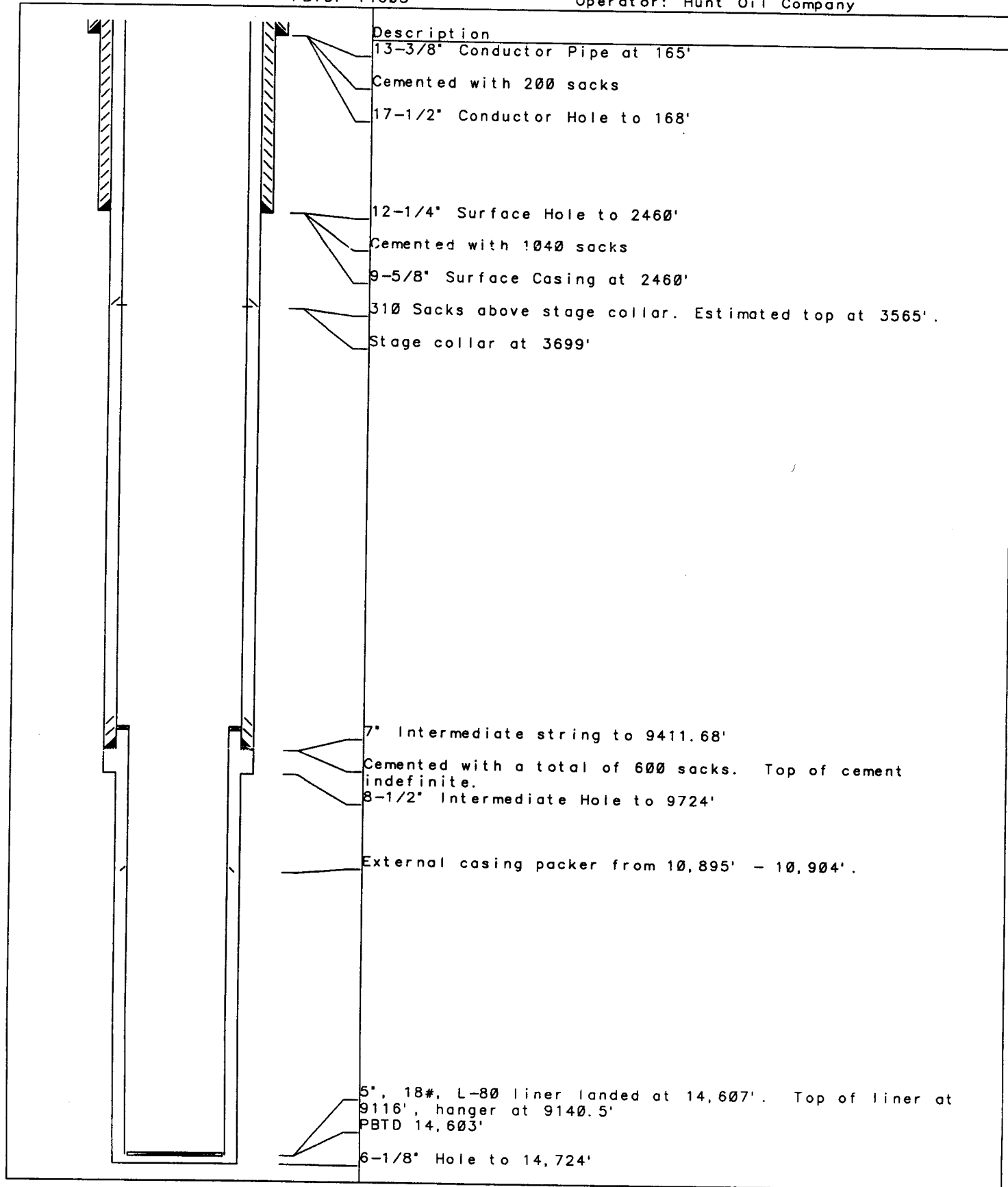
Top of liner at 9116.18' MD

Lease: Indianola Federal
Well #: 24-1

Spud Date: 08/14/1994
KB: 7451.5
TD: 14724

Comp Date: / /
ELEV: 7431
PBD: 14603

API #: 43-049-30016
Location: Sec 24 Twn 11S Rng 4E
County: Utah
State: Utah
Field: Wildcat
Operator: Hunt Oil Company



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

FEB 13 1995

License Designation and Serial No.

UTU-59088

Indian, Allottee or Tribe Name

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Hunt Oil Company intends to plug and abandon this well. Please refer to the attached plugging procedure.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

14. I hereby certify that the foregoing is true and correct

Signed Robert T. Evans

Title Senior Engineering Technician

Date 2/10/95

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

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*See Instruction on Reverse Side

INDIANOLA FED #24-1

REVISED
Plug and Abandon

February 10, 1995

Casing: 13-3/8" @ 165' cem w/200 sx
9-5/8" @ 2460' cem w/650 sx HLC+280 Prem, circ to surf
7" 26#/ft @ 9412', DV tool @ 3700'
cem: 1st stg-150 sx+100 sx sq slurry
2nd stg-210 sx Hifill+100 sx 50-50 Poz,+3-100 sx sq
sq leak @ 8874-8967' w/50 sx
Liner: 5" 18#/ft @ 14,607'-9116' uncem, ECP @ 10,895'

Formation tops: Triassic - Thaynes 10825'
" - Woodside 11710'
Permian - Park City 12296'

Perforations: Thaynes 11586'-11596'
Park City 13203'-13213'
13308'-13318'
13375'-13385'
13412'-13422'
14572'-14582'
14592'-14602'

1. MIRU service rig, ND tree and NU BOP
2. Release tubing from PBR @ 9126', TOOH
3. RU wireline run cement retainer for 5" liner to approx. 11530' and set
4. PU additional 2-7/8" tubing and stinger for cement retainer and TIH, pump 100 sx. Cl G with additives below cem ret, sting out and leave 5 sx cem on top of cem ret
5. set 150' plug across liner top @ 9116' (half in -half out), 150' (35 sx) balanced plugs at 8850'-9000', @ DV tool 3775'-3625', @ surface casing 2510'-2410', and top with 50' with dry hole marker, or weld on plate with necessary information - annulus will be 1" d as necessary to fill to surface
7. RD and MO rig and equipment
8. Restore location

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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DIVISION OF OIL, GAS & MINING

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Expires: March 31, 1993

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01/22/95 Perforated as follows:

Thaynes 11,586' - 11,596'
Park City 13,203' - 13,213'
13,308' - 13,318'
13,375' - 13,385'
13,412' - 13,422'
14,572' - 14,582'
14,592' - 14,602'

All perforations 4 JSPF, 0.44" diameter.

01/23 - 24/95 Prepare well for testing.

01/25 - 31/95 Rig down and move off drilling rig, rig up to test.

02/01 - 08/95 Jet with Nitrogen. No show of oil or burnable gas. Complete testing procedures will be in the Chronological Well Report.

14. I hereby certify that the foregoing is true and correct

Signed Robert T. Evans

Title Senior Engineering Technician

Date 2/10/95

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____ Date _____

UNITED STATES
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☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Plugged and abandoned as follows:

Set cement retainer on wireline at 11,350'. Established injection rate of 7 BPM at 1100 psi under retainer. Mixed and pumped 100 sacks of Premium cement with 35% SSA-1, 0.3% CFR-3, and 0.3% HR-5. Displaced with 66 BW. Stung out of retainer and pulled 20 joints of tubing.

Tagged cement at 11,324'. filled casing with 30 BW. Spotted 30 sacks cement containing 0.2% HR-5 across liner top from 9221' - 9019'. WOC 4 hours. RIH with tubing to top of liner at 9116' - no cement. RIH to 9221'. Spotted 60 sacks neat cement from 9221' - 8830'. POH with 74 joints tubing.

Tagged cement at 8837'. Spotted 30 sacks cement containing 0.2% HR-5 from 3770 - 3604. Spotted 30 sacks cement from 2516' - 2350'.

Cut 7" casing 55' below ground level. Filled 7" casing and 7" X 9-5/8" annulus with 20 sacks cement from 55' to sfc.

Cut off 9 5/8" and 7" casing strings 5' below ground level. Welded on steel plate with required information and filled in cellar. Plugging operations completed on 3/10/95.

14. I hereby certify that the foregoing is true and correct

Signed Robert T. Evans

Title Senior Engineering Technician

Date 3/13/95

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

I. NAME, DESIGNATION AND SERIAL NO.

UIU-59088

II. NAME, ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG GAS & MINING

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> Other _____		7. UNIT AGREEMENT NAME Indianola	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. REVR. <input type="checkbox"/> Other _____		8. FARM OR LEASE NAME, WELL NO. Federal	
2. NAME OF OPERATOR Hunt Oil Company		9. API WELL NO. #24-1	
3. ADDRESS AND TELEPHONE NO. P.O. Box 3119 Casper, Wyoming 82602		10. FIELD AND POOL, OR WILDCAT Wildcat	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1971' FNL & 2249' FEL (SWNE) Section 24, T11S, R4E At top prod. interval reported below At total depth 577' FSL & 520' FWL (SWSW) Section 13, T11S, R4E		11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA Sec 24, T11S, R4E - Sfc Sec 13, T11S, R4E - TD	
14. PERMIT NO. 43-049-30016		DATE ISSUED 6/24/94	
15. DATE SPUNDED 8/14/94	16. DATE T.D. REACHED 1/12/95	17. DATE COMPL. (Ready to prod.) P & A 3-11-95	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 7451.5' KB / 7431' GR
19. ELEV. CASINGHEAD -----		20. TOTAL DEPTH, MD & TVD 14724MD/13931TVD	
21. PLUG, BACK T.D., MD & TVD P & A		22. IF MULTIPLE COMPL., HOW MANY* -----	
23. INTERVALS DRILLED BY -----		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* P & A	
25. WAS DIRECTIONAL SURVEY MADE Yes		26. TYPE ELECTRIC AND OTHER LOGS RUN Dipmeter; SDL; DSN; BCS; EMI; RSCT; HRTT; CBL	
27. WAS WELL CORED No		28. CASING RECORD (Report all strings set in well)	
Casing Size/Grade		Weight, LB./FT.	
13-3/8"		54.5#	
9-5/8"		47#	
7"		26#	
Depth Set (MD)		Hole Size	
165'		17-1/2"	
2,460'		12-1/4"	
9,412'		8-1/2"	
Top of Cement, Cementing Record		Amount Pulled	
200 Sacks		None	
1040 Sacks		None	
600 Sacks		None	
29. LINER RECORD		30. TUBING RECORD	
Size		Top (MD)	
5"		9,116'	
Bottom (MD)		Sacks Cement*	
14,607'		None	
Screen (MD)		Size	
-----		Depth Set (MD)	
-----		Packer Set (MD)	
-----		-----	
31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
11,586-596 Thaynes 14,572-582 Park City		Depth Interval (MD)	
13,203-213 Park City 14,592-602 Park City		Amount and Kind of Material Used	
13,308-318 Park City All intervals per-		-----	
13,375-385 Park City forated using 4		-----	
13,412-422 Park City 0.44" holes/ft.		-----	
33. PRODUCTION		34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)	
Date First Production		Production Method (Flowing, gas lift, pumping—size and type of pump)	
-----		-----	
Date of Test		Hours Tested	
-----		-----	
Choke Size		Prod'n. for Test Period	
-----		-----	
Oil—BBL.		Gas—MCF.	
-----		-----	
Water—BBL.		Gas-Oil Ratio	
-----		-----	
Flow. Tubing Press.		Casing Pressure	
-----		-----	
Calculated 24-Hour Rate		Oil—BBL.	
-----		-----	
Gas—MCF.		Water—BBL.	
-----		-----	
Oil Gravity-API (CORR.)		-----	
-----		-----	
35. LIST OF ATTACHMENTS		36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	
Chronological Well Report		Robert T. Evans	
SIGNED <u>Robert T. Evans</u>		TITLE Sr. Engineering Technician	
DATE 3/14/95		DATE 3/14/95	

*(See Instructions and Spaces for Additional Data on Reverse Side)

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

Surf Loc: 1971' FNL, 2249' FEL, SWNE Sec. 24, T11S, R4E; Btm Hole Loc: 780' FSL, 248' FWL, SWSW Sec. 13, T11S, R4E

08-15-94: 168', Made 148', 17 1/2", MW 8.6, vis 37, PV 6, YP 11, Gels 6/2, pH 9.0, FL NC, Solids 2%, Sand 1/4%, Chl 150, FC 3/32. Bit #A1, HTC-R1, Noz 3-15, Depth in 20', Tot ftg 148' in 5 hrs, ROP 29.6, Cond 2-2-l, WOB 2-10, RPM 75-110, Pmp press 400. 13 - 1/2 hrs Fin RU rot tls & mix spud mud. 5 hrs Spud 17 1/2" hole @ 1830 hrs 8/14/94. Drld 20'-168'. 1 hr CBU & POOH. 1/2 hr RU to rn 13-3/8" csg. 1 1/2 hrs Rn 4 jts 13-3/8" csg to 165'.

13-3/8" CASING DETAIL

4 JTS 13-3/8", 54.5#, K-55, ST&C	171.90'
Less Cutoff	-27.28'
Plus KB	+20.50'
Casing Set @	165.12'

RU Halliburton. Brk circ w/320#. Pmpd 20 BFW @ 100# PP ahead of 200 sx Premium cmt w/2% CaCl₂ @ 15.6 ppg. Displ w/25 BFW & left 10' cmt inside csg. CIP @ 0300 hrs 8/15/94. 2 hrs WOC. Co. man on loc - Simpson. DWC \$42,430, CWC \$42,430

08-16-94: 591', Made 423', Sh fm, 12 1/4" hole, MW 8.6, vis 36, PV 5, YP 8, Gels 5/10, pH 10, FL 18.4, Solids 2%, Sand tr, Chl 300, FC 3/32. Bit: MM3639, Reed HP-11, Noz 3-13.3, Depth in 168', Tot ftg 423' in 9 hrs, ROP 47, Cond 1H, WOB 10-20, RPM 50-115, Pmp press 2000, Circ rate 568, AV 103, Pmp 1 SPM liner 74 x 6; Pmp 2 SPM Liner 74 x 6, Length of BHA = 593'. Position of stabs abv bit 1', 11' & 48'. BHA hrs 9, Pickup wt 82M, Slackoff wt 80M, Avg torque 800#. Surv: 1/2° N78°E @ 203'; 1/4° N40°E @ 300'. BHA: B, NBS, SDC, stab, Monel DC, stab, SS, 7 - DC's, Jars, DC, XO, 9 HWDP. 2 hrs WOC. 9 hrs Cut off 13-3/8" csg, weld on 13-5/8" flange, NU 13-5/8" diverter & lines. NU bell nip. 2 hrs Chg out BHA's. 1/2 hr Tag cmt @ 155'; drl cmt 155'-168'. 2 hrs Drl 168'-203'. 1/2 hr Surv @ 203'. 2 hrs Drl 203'-320'. 1 hr Surv @ 300'. 5 hrs Drlg 320'-591'. Co. man on loc - Simpson. DMC \$953, CMC \$2,379, DWC \$12,078, CWC \$54,508

08-17-94: 1,005', Made 414', Sh fm, 12 1/4" hole, MW 8.6, vis 37, PV 7, YP 11, Gels 6/14, pH 8.8, FL 14.4, Solids 2.4%, Sand tr, Chl 300, FC 2/32. Bit #1: HP11, MM 3639, In @ 168', Made 649' in 18 1/2 hrs, ROP 35, Cond T4, SE, 1/8". Bit #2: SEC S33S6, Noz 3-12, Depth in 817', Tot ftg 188' in 8 1/2 hrs, ROP 22, Cond 1H, WOB 22, RPM 115, Pmp press 2300, Circ rate 449.8, AV 71/91, Pmp 1 SPM liner 65 x 6 x 12; Pmp 2 SPM liner 65 x 6 x 10, Max pmp press 2300, Length of BHA = 601.61'. Wt in mud below jars 36,000#, Position of stabs abv bit 1', 14' & 52'. BHA hrs 25.5, Pickup wt 100M, Slackoff wt 100M. Surv: 1/4° S40°E @ 590'; 1/2° S27°E @ 817'. Avg ROP 25. 1 hr Surv @ 590'. 2 hrs Drlg 590'-685'. 1 hr Tight upper kelly vlv, fix torque gauge. 6 hrs Drlg 685'-817'. 1/2 hr Circ f/trip, Surv @ 817'. 3 1/2 hrs Trip f/bit #2 & change BHA. Add MWD tls & tst, tripping to btm w/no fill. 1 hr Rig repair, restrung geograph line. 2 1/2 hrs Drlg 817'-876'. 1/2 hr Circ & surv w/MWD @ 876'. 6 hrs Drlg 876'-1005'. Surv @ 976'. Co. man on loc - Fox. DMC \$2,149, CMC \$4,528, DWC \$51,794, CWC \$95,972

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

08-18-94: 1,220', Made 215', North Horn fm, 12 1/4" hole, MW 8.6, vis 36, PV 6, YP 8, Gels 4/13, pH 8.5, WL 14, Solids 2.4%, Sand tr, Ca 40, Chl 250, FC 3/32. Bit #2: SEC S33S6, Noz 3-12, Depth in 817', Tot ftg 383' in 22 1/2 hrs, ROP 17, Cond 8, SE, 1/4. Bit #3: HP11, Noz 2-12 & 1-13, Depth in 1200', Tot ftg 20' in 1 hr, Cond 1H. WOB 30, RPM 80, Pmp press 2400, Circ rate 563, AV 80/103, Pmp 1 SPM liner 74 x 6 x 12; Pmp 2 SPM liner 73 x 6 x 10, Max pmp press 3000, BHA: Same. Length of BHA = 602.72'. Wt in mud below jars 36,000#, Position of stabs abv bit 1', 14' & 52'. Surv: .7° (1013.97' TVD) w/158° AZM @ 1014'; .7° (1107.97' TVD) w/140.3° AZM @ 1108'; .7° (1155.96' TVD) w/138.3° AZM @ 1156'. Lost 130 BM downhole due to seepage while drlg. 3 1/2 hrs Drlg 1005-1058'. 1/2 hr Rig serv. Surv @ 1014'. 2 1/2 hrs Drlg 1058-1106'. 1 hr Repair kelly hose, re-hammer unions. 6 hrs Drlg 1106-1184'. Surv @ 1108'. 1/2 hr Weld patch on drlg nip. 2 hrs Drlg 1184'-1200'. Surv @ 1156'. 2 1/2 hrs Prep to trip, drain plug on 13-3/8" csg brk, filled cellar w/mud, reclaimed mud & repaired plug. 2 hrs Trip f/new bit. 2 1/2 hrs PU new bit, repl 2nd stab & TIH. 1 hr Drlg 1200'-1220'. HOC spill unit on loc @ 1500 hrs. Co. men on loc - Eggum/Fox. DMC \$2,070, CMC \$6,598, DWC \$31,795, CWC \$144,837 (\$17,070 correction)

08-19-94: 1,675', Made 455', North Horn fm, 12 1/4" hole, MW 8.7, Vis 45, PV 8, YP 10, Gels 9/46, pH 10, WL 16.8, Solids 3%, Sand tr, Chl 300, FC 3/32. Bit #3: HP11, Noz 2-12 & 1-13, Depth in 1200', Tot ftg 475' in 22 1/2 hrs, ROP 21, Cond 1H. WOB 20, RPM 140, Pmp press 2400, Circ rate 563, AV 72/71, Pmp 1 SPM liner 74 x 6 x 12; Pmp 2 SPM liner 73 x 6 x 10, Max pmp press 3000, BHA: Bit, stab, SDC, stab, NMDC, MWDS, stab, shock sub, FDC, drlg jars, 1 DC, XO, 7 jts HWDP. Length of BHA = 541.58'. Wt in mud below jars 36,000#, Position of stabs abv bit 1', 14' & 52'. Surv: .5° (1290.95' TVD) w/147.1° AZM @ 1291'; .6° (1479.95' TVD) w/89.5° AZM @ 1480'; 1.2° (1576.93' TVD) w/79.4° AZM @ 1577'. 3 1/2 hrs Drlg 1220'-1335'; lost 300# pmp press. 1 1/2 hrs Chain out looking f/hole. Found HWDP jt #6 had stress crack on box & #5 washed pin. 1 hr TIH, PU 5 jts DP. Surv @ 1291'. 18 hrs Drlg 1335'-1675'. Surv @ 1480' & 1577'. Co. men on loc - Eggum/Fox. DMC \$3,098, CMC \$9,696, DWC \$29,068, CWC \$173,905

08-20-94: 1,960', Made 285', North Horn fm, 12 1/4" hole, MW 8.7, Vis 34, PV 7, YP 6, Gels 3/20, pH 9.2, WL 12.8, Solids 2.8%, Sand tr, Chl 300, FC 2/32. Bit #3: HP11, Noz 2-12 & 1-13, Depth in 1200', Tot ftg 495' in 23 1/2 hrs, ROP 21, Cond 8-E-I. Bit #4: HP43A, Noz 2-12 & 1-13, Depth in 1695', Tot ftg 265' in 16 hrs, ROP 16, Cond 1H. WOB 20, RPM 90, Pmp press 2400, Circ rate 563, AV 72/91, Pmp 1 SPM liner 74 x 6 x 12; Pmp 2 SPM liner 73 x 6 x 10, Max pmp press 3000, BHA: Bit, stab, SDC, stab, NMDC, stab, shock sub, 7 DC's, Jars, 1 DC, XO, 4 - 6 1/4" DC's, XO, 5 jts XDP. Length of BHA = 601.56'. Wt in mud below jars 36,000#, Position of stabs abv bit 1', 14' & 53'. Surv: 1° S84°E @ 1727'; 1° S77°E @ 1820'; 1° N84°E @ 1912'. 1 hr Drlg 1675-1695'; lost pmp press. 3 hrs Trip f/hole in string; chaining out. Trip in w/bit #4 press up w/kelly every std. Found cracked box on 6th HWDP, wshd pin on 5th HWDP. 4 hrs Chgd top stab & PU 4 - 6 1/4" DC's. 16 hrs Drlg 1695-1960'. Co. man on loc-Eggum. DMC \$4,304, CMC \$14,000, DWC \$44,488, CWC \$218,393

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

08-21-94: 2,160' - Made 200', Arapien fm, 12 1/4" hole, MW 8.7, Vis 37, PV 8, YP 9, Gels 4/27, pH 9, WL 12.8, Solids 3.1%, Tr Sd, Chl 300, FC 2/32. Bit #4: HP43A, Noz 2 12 & 1-13, Depth in 1695', Tot ftg 455' in 31 hrs, ROP 14.6, Cond 6-E-1/8. Bit #5: HP43A, Noz 2-12 & 1-13, Depth in 2150', Tot ftg 10' in 1 1/2 hrs, Cond IH. WOB 20/25, RPM 90/100, Pmp press 2400, Circ rate 546, AV 70/88, Pmp 1 SPM liner 71 x 6 x 12; Pmp 2 SPM liner 71 x 6 x 10, Max pmp press 3000, BHA: Bit, stab, SDC, stab, NMDC, stab, shock sub, 7 DC's, Jars, 1 DC, XO, 4 - 6 1/4" DC's, XO, 5 jts XDP. Length of BHA = 601.56'. Wt in mud below jars 36,000#, Position of stabs abv bit 1', 14' & 53'. Surv: 1°, 103.30 AZM, Vert Sect 14.79, 6.56S, 13.36E, Dog Leg 0.14°/100' @ 1820'; 1.1°, 97 AZM, Vert Sect 17.93, 6.69S, 16.65E, Dog Leg .27°/100' @ 2006'; 1.8° 92.5 AZM, Vert Sect 20.25, 6.87S, 19.05E, Dog Leg .75°/100' @ 2101'. 15 hrs Drlg 1960'-2150'; lost pmp press. 3 1/2 hrs Trip out; found washed box on DP jt #46 & washed pin on DP jt #47. 2 hrs Chgd bit, trip to HWDP, Kelly up, Circ press @ 2400#. 2 hrs Chg out sub-saver on kelly. 1 1/2 hrs Wsh 10' fill, Drlg 2150'-2160'. 151 bbls lost to seepage. Co. man on loc - Eggum. DMC \$2,697, CMC \$16,697, DWC \$36,829, CWC \$255,222

08-22-94: 2,460' - Made 300', Arapien fm, 12 1/4" hole, MW 8.7, Vis 46, PV 11, YP 12, Gels 6/35, pH 8.5, WL 13.6, Solids 2.8%, Tr Sd, Chl 300, FC 3/32. Bit #5: HP43A, Noz 2-12 & 1-13, Depth in 2150', Tot ftg 310' in 24.5 hrs, ROP 12.7, Cond IH. WOB 25/30, RPM 90/110, Pmp press 2400, Circ rate 538, AV 69/87, Pmp 1 SPM liner 70 x 6 x 12; Pmp 2 SPM liner 70 x 6 x 10, Max pmp press 3000, BHA: Bit, stab, SDC, stab, NMDC, stab, shock sub, 7 DC's, Jars, 1 DC, XO, 4 - 6 1/4" DC's, XO, 5 jts XDP. Length of BHA = 601.56'. Wt in mud below jars 36,000#, Position of stabs abv bit 1', 14' & 53'. Surv: 2.3°, 97.9 AZM, Vert Sect 26.94, 7.97S, 25.76E, Dog Leg 0.22°/100' @ 2281'; 2.1°, 92.10 AZM, Vert Sect 30.38, 8.28S, 29.23E, Dog Leg .33°/100' @ 2372'; 2.3° 91.40 AZM, Vert Sect 31.99, 8.33S, 30.88E, Dog Leg .47°/100' @ 2415'. Avg ROP 13. 23 hrs Drlg 2160'-2460'. 1 hr Circ to rn 9-5/8" csg. 34 BM lost to seepage. Co. man on loc - Eggum. DMC \$1,129, CMC \$17,826, DWC \$21,863, CWC \$277,085

08-23-94: 2,460' - Made 0', Arapien fm, 12 1/4" hole, MW 8.6, Vis 40, PV 12, YP 8, Gels 4/24, pH 8, WL 14.4, Solids 2.1%, Tr Sd, Chl 300, FC 2/32. Bit #5: HP43A, Noz 2-12 & 1-13, Depth in 2150', Tot ftg 310' in 24.5 hrs, ROP 12.7, Cond 6-E-I. 1 hr Short trip 10 stds. 1 1/2 hrs Repair elevators. 1/2 hr TIH w/no fill. 1 hr C&C hole f/9-5/8" csg. 5 hrs Trip out & LD BHA. 4 hrs RU & rn 59 jts of 9-5/8" csg. 3 hrs RU Halco, filled csg to circ @ 500#. Pmpd 20 BFW & cmtd w/660 sx HLC (1.89 cu ft/sk @ 12.4#/gal). Followed w/280 sx Premium (1.18 cu ft/sk @ 15.6#/gal). Displ w/177 BM; good returns w/no cmt to top. Bump plug w/800 psi. RU to cmt top w/1" & 100 sx Premium (1.15 cu ft/sk @ 15.6#/gal). Good cmt returns, rig on Halco. 5 hrs WO cmt. 3 hrs Made cut off on 13-3/8" & 9-5/8" csg, ND diverter. Made final cut on 9-5/8" & set on 9-5/8" WH. Preheat & weld on same.

CHRONOLOGICAL WELL REPORT

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9-5/8" CASING:

Howco Float Shoe	1.45'
1 jt 9-5/8", 47#, L-80, LTC	38.76'
Howco Float Collar	1.00'
57 jts 9-5/8", 47#, L-80, LTC	<u>2423.87'</u>
Total csg	2465.08'
Less Cut-Off	(25.58')
+ KB	<u>20.50'</u>
CSG SET @	2460.00'

Co. men on loc - Eggum/Fox. DMC \$654, CMC \$18,480, DWC \$91,881, CWC \$368,966

08-24-94: 2,460' - Made 0', MW 8.6, Vis 46, PV 15, YP 12, Gels 5/29, pH 7.8, WL 14.8, Solids 2.1%, Tr Sd, Chl 30, FC 2/32. Bit #6: EHP51A, Noz 3-11, Depth in 2460'. BHA: Bit, Bent housing motor, Float sub, Shock sub, NMDC, HDS, NMDC, XO, 15 - 6 1/2" DC's, Jars, 5 - DC's, XO. Length of BHA = 706.26'. 5 hrs Weld on 9-5/8" csg flange. Tst to 3500#. 6 1/2 hrs NU BOP & chk manifold. 1 hr Tst chk manifold to 250# low / 5000# high. 2 hrs RU floor & set tst plug in head. 5 hrs Double-Jack tstd BOP's to 250# low / 5000# high; BLM witnessed tst. 1 hr Pull tst plug & set wear bushing. 3 hrs PU 6-3/4" - 1° bent housing motor & MWD assy & tst same. 1/2 hr MU bit, TIH PU BHA. Co. men on loc - Eggum/Fox. DMC \$2,542, CMC \$21,022, DWC \$37,089, CWC \$406,055

08-25-94: 3,071' - Made 611', Arapien, MW 8.6, Vis 39, PV 9, YP 10, Gels 10/32, pH 9.5, WL 14.8, Solids 2.4%, Tr Sd, Chl 350, FC 2/32, 390 sx Barite on board. Bit #6: EHP51A, Noz 3-11, Depth in 2460', Tot ftg 611' in 15 hrs, ROP 40.7, Cond IH. WOB 20/40, RPM 90/140, Pmp press 2400, Circ rate 436, AV 195/286. Pmp #1 SPM-Liner 103 x 6; Pmp 2 SPM-Liner 0 x 6, Max pmp press 3000. BHA: Bit, Bent housing motor, Float sub, Shock sub, NMDC, HDS, NMDC, XO, 15 - 6 1/2" DC's, Jars, 5 - DC's, XO. Length of BHA = 706.26'. Wt in mud below jars 42,000. Surv: 2.3° (TVD 2414.6'), AZM 91.40, Vert Sect .47, 8.33S, 30.89E, Dog Leg .47 @ 2415'; 20.9° (TVD 2804.5), AZM 324.70, Vert Sect 3.42, 30.08N, 23.75E, Dog Leg 10.55 @ 2810'; 29.8° (TVD 2972.76'), AZM 311.30, Vert Sect 86.65, 90.24N, 33.90W, Dog Leg 3.28 @ 2998'. Avg ROP 40'. 2 hrs PU BHA. TIH laying dn 10 jts 19.5#E, 5" w/washed pins & boxes. 4 hrs Checking all tl jt brks. Tagged soft cmt @ 2393'. 1/2 hr Circ & tst csg & surf equip to 3000# f/10 min (OK). 2 hrs Drlg 2393' to 2470'; 10' below shoe. 1/2 hr Tst fm to 12.5 ppg EMW w/500# f/10 min - held OK. 1 1/2 hrs Drlg 2470'-2550'; surv @ 2415'. 13 1/2 hrs Drlg 2550'-3071' bldg angle from 2.3° to 29.8° @ 311.3° AZM. NOTE: Angle has built slightly more than the 27.15° projected & will be wrkg w/various combination of WOB w/sliding and/or rotating to achieve a drop in angle, without tripping f/BHA change. Co. men on loc - Eggum/Fox. DMC \$2,139, CMC \$23,161, DWC \$31,350, CWC \$437,415

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

08-26-94: 3,449' - Made 378', Arapien, MW 8.9+, Vis 41, PV 11, YP 10, Gels 7/32, pH 9.3, WL 13.6, Solids 3.9%, Tr Sd, Chl 350, FC 2/32, 490 sx Barite on board. Bit #6: EHP51A, Noz 3-11, Depth in 2460', Tot ftg 797' in 21 1/2 hrs, ROP 37, Cond 4-E-I. Bit #7: EHP51A, Noz 3-11, Depth in 3257', Tot ftg 192' in 8 hrs, ROP 24, Cond IH. WOB 25/30, RPM 110/140, Pmp press 2450, Circ rate 433, AV 194/284. Pmp #1 SPM-Liner 103 x 6; Pmp 2 SPM-Liner 0 x 6, Max pmp press 3000. BHA: Bit, Bent housing motor, Float sub, NMDC, HDS, NMDC, XO, 15 - 6 1/2" DC's, Jars, 5 - DC's, XO. Length of BHA = 695.83'. Wt in mud below jars 42,000. Surv: 28.70° (TVD 3052'), AZM 311.60, Vert Sect 131.08, 119.68N, 67.22W, Dog Leg 1.22 @ 3089'; 30.40° (TVD 3214), AZM 313.40, Vert Sect 221.45, 181.71N, 132.94W, Dog Leg 1.98 @ 3275'; 31.50° (TVD 3296'), AZM 312.70, Vert Sect 270.31, 215.06N, 168.64W, Dog Leg 1.22 @ 3370'. 6 1/2 hrs Drlg 3071-3257'; lost 400 psi; pmp press 1800#. 4 hrs Trip f/pmp press loss, chain out wet, dump vlv on mud motor washed, PU bit #7, LD shock sub. 2 1/2 hrs TIH w/bit #7. 6 1/2 hrs Drlg 3257-3416'. 3 hrs 4" union nip on kelly goose neck blew out @ 2400#, trip 2 stds, repair nip, trip in 2 stds. 1 1/2 hrs Drlg 3416-3449'. NOTE: Final charges for road and location now complete and being processed - added to cumulative well cost today (\$332,633). Co. men on loc - Eggum/Fox. DMC \$2,884, CMC \$26,045, DWC \$36,630, CWC \$806,678 (adjusted)

08-27-94: 3,995' - Made 546', Arapien, MW 8.9+, Vis 45, PV 14, YP 12, Gels 9/38, pH 9.2, WL 13.2, Solids 3.9%, Tr Sd, Chl 500, FC 2/32. Barite on board = 490. Bit #7: EHP51A, Noz 3-11, Depth in 3257', Tot ftg 738' in 31.5 hrs, ROP 23.4, Cond IH. WOB 25/35, RPM 60/150, Pmp press 2300, Circ rate 433, AV 194/284. Pmp #1 SPM-Liner 103 x 6; Pmp 2 SPM-Liner 0 x 6, Max pmp press 3000. BHA: Bit, Bent housing motor, Float sub, NMDC, HDS, NMDC, XO, 15 - 6 1/2" DC's, Jars, 5 - DC's, XO. Length of BHA = 695.83'. Wt in mud below jars 42,000. Slow circ pmp #1: 40 SPM/600#. Surv: 29.9° (TVD 3377'), AZM 313.20, Vert Sect 318.29, 247.45N, 203.77W, Dog Leg 1.72 @ 3464'; 24.6° (TVD 3628'), AZM 315.20, Vert Sect 445.90, 337.47N, 294.55W, Dog Leg 2.60 @ 3746'; 26.7° (TVD 3799'), AZM 309.70, Vert Sect 526.09, 392.57N, 352.82W, Dog Leg 3.11 @ 3935'. ROP 23.3. 22 1/2 hrs Drlg 3449-3981'. 1/2 hr Circ & repair tight hole @ 3981'. 1 hr Drlg 3981-3995'. Slack off = 10,000#; Drag = 35,000#. Co. men on loc - Eggum. DMC \$2,665, CMC \$28,710, DWC \$31,388, CWC \$838,066

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

08-28-94: 4,258' - Made 263', Arapien, MW 9.2, Vis 48, PV 11, YP 12, Gels 6/28, pH 9, WL 9.6, Solids 4.8%, Tr Sd, Chl 500, FC 2/32. Barite on board = 730 sx. Bit #7: EHP51A, Noz 3-11, Depth in 3257', Tot ftg 849' in 40 hrs, ROP 21.2, Cond 4-E-1/16. Bit #8: SE1075, Noz 4-10, Depth in 4106', Tot ftg 152' in 6½ hrs, ROP 23.4 Cond IH. WOB 10/14, RPM 60/110, Pmp press 2100, Circ rate 433, AV 19/284. Pmp #1 SPM-Liner 103 x 6; Pmp 2 SPM-Liner 0 x 6, Max pmp press 3000. BHA: Bit, L/S mud motor, float sub, 3 pt reamer, NMDC, HDS, 3 NMDC, XO, 15 - 6½" DC's, Jars, 5 - DC's, XO. Length of BHA = 701.96'. Wt in mud below jars 42,000. Position of stabs abv bit: stab - 2', 3 pt - 32'. Slow circ pmp #1: 40 SPM/600#. Surv: 26.7° (TVD 3799'), AZM 309.70, Vert Sect 526.09, 392.57N, 352.82W, Dog Leg 3.11 @ 3935'; 27.2° (TVD 3881'), AZM 310.20, Vert Sect 567.71, 419.34N, 384.79W, Dog Leg .60 @ 4027'; 28.1° (TVD 3961'), AZM 310.40, Vert Sect 609.42, 446.36N, 416.64W, Dog Leg 1.01 @ 4117'. ROP 17.5, Avg BGG 5. 8½ hrs Drlg 3995-4106'; lost 400# pmp press. 1 hr Circ checking f/pmp loss. 4 hrs TOH f/press loss, chain out wet, wrkd tight hole f/4106-3292', 200-225M#, came free. ½ hr LD mud motor (mandrel lkg), change BHA. 3 hrs TIH w/25,000# slack off on last 3 stds. ½ hr Wsh & rm 53' to btm 4053-4106'. 6½ hrs Drlg 4106-4258'. NOTE: BGG from adding 5 gal diesel to mud system f/foam). Co. men on loc - Eggum. DMC \$3,317, CMC \$32,027, DWC \$63,341, CWC \$901,407

08-29-94: 4,640' - Made 382', Arapien, MW 9.2+, Vis 50, PV 15, YP 20, Gels 16/52, pH 8.8, WL 10, Solids 4.9%, Tr Sd, Chl 3600, FC 2/32. Bit #8: SE1075, Noz 4-10, Depth in 4106', Tot ftg 534' in 30½ hrs, ROP 17.5, Cond IH. WOB 12/15, RPM 70/110, Pmp press 1950, Circ rate 410, AV 184/269. Pmp #1 SPM-Liner 0 x 6; Pmp 2 SPM-Liner 118 x 6, Max pmp press 3000. BHA: Bit, L/S mud motor, float sub, 3 pt reamer, NMDC, HDS, 3 NMDC, XO, 15 - 6½" DC's, Jars, 5 - DC's, XO. Length of BHA = 701.96'. Wt in mud below jars 42,000. Position of stabs abv bit: stab - 2', 3 pt - 32'. Slow circ pmp #1: 40 SPM/600#. Surv: 28.10° (TVD 4045'), AZM 310.10, Vert Sect 654.09, 475.27N, 450.79W, Dog Leg .15 @ 4212'; 26.30° (TVD 4128'), AZM 313.30, Vert Sect 697.02, 503.81N, 482.88W, Dog Leg 2.47 @ 4306'; 26.00° (TVD 4297'), AZM 314.40, Vert Sect 779.21, 560.67N, 542.24W, Dog Leg .46 @ 4494'. ROP 15.9. 24 hrs Drlg 4258-4640'. Co. man on loc - Eggum. DMC \$4,433, CMC \$36,460, DWC \$27,422, CWC \$928,829

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

08-30-94: 4,857' - Made 217', Arapien, MW 9.2+, Vis 45, PV 15, YP 14, Gels 8/31, pH 8.5, WL 8, Solids 4.9%, Tr Sd, Chl 4500, FC 2/32. Barite on board: 560 sx. Bit #8: SE1075, Noz 4-10, Depth in 4106', Tot ftg 751' in 44½ hrs, ROP 16.9, Cond IH. WOB 14/20, RPM 65/140, Pmp press 2000, Circ rate 410, AV 184/269. Pmp #1 SPM-Liner 0 x 6; Pmp 2 SPM-Liner 118 x 6, Max pmp press 3000. BHA: Bit, L/S mud motor, float sub, 3 pt reamer, NMDC, HDS, 3 NMDC, XO, 15 - 6½" DC's, Jars, 5 - DC's, XO. Length of BHA = 701.96'. Wt in mud below jars 42,000. Position of stabs abv bit: stab - 2', 3 pt - 32'. Slow circ pmp #1: 40 SPM/600#. Surv: 26.4° (TVD 4381'), AZM 314.40°, Vert Sect 820.27', 589.40N, 571.57W, Dog Leg .43 @ 4587'; 26.10° (TVD 4465'), AZM 316.50°, Vert Sect 861.81', 619.02N, 600.74W, Dog Leg 1.04 @ 4681'; 25.10° (TVD 4548'), AZM 315.80°, Vert Sect 901.52', 647.69N, 628.27W, Dog Leg 1.14 @ 4773'. ROP 15.5, BGG 16. ½ hr Drlg 4640-4644'. ½ hr C&C, Surv. ½ hrs Short trip, stuck pipe, bit @ 3521', jar @ 2971', XO @ 2819'. 1½ hrs Wrk stuck pipe @ 3521' jarring up, came free. 5 hrs Trip w/tight spots f/3521-2460' (extremely tight @ 3343'). Back rm tight spots 2877-2460', back rm w/top drive & mud pmp. 1½ hrs Trip in rmg tight spots 2764-2800'. ½ hr Wsh & rm to btm, had 7' fill. 14 hrs Drlg 4644-4857'. Co. man on loc - Eggum. DMC \$4,851, CMC \$41,311, DWC \$30,151, CWC \$958,980

08-31-94: 5,163' - Made 306', Arapien, MW 9.2, Vis 44, PV 14, YP 15, Gels 9/30, pH 8.5, WL 7.6, Solids 4.6%, Tr Sd, Chl 4500, FC 2/32. Barite on board: 658 sx. Bit #8: SE1075, Noz 4-10, Depth in 4106', Tot ftg 1057' in 68½ hrs, ROP 15.4, Cond IH. WOB 16/20, RPM 60/106, Pmp press 2200, Circ rate 436, AV 195/286. Pmp #1 SPM-Liner 104 x 6; Pmp 2 SPM-Liner 0 x 6, Max pmp press 3000. BHA: Bit, L/S mud motor, float sub, 3 pt reamer, NMDC, HDS, 3 NMDC, XO, 15 - 6½" DC's, Jars, 5 - DC's, XO. Length of BHA = 701.96'. Wt in mud below jars 42,000. Position of stabs abv bit: stab - 2', 3 pt - 32'. Slow circ pmp #1: 40 SPM/600#. Surv: 24.3° (TVD 4632'), AZM 317.70°, Vert Sect 940.31', 675.99N, 654.90W, Dog Leg 1.21 @ 4866'; 22.7° (TVD 4719'), AZM 319.90°, Vert Sect 977.62', 704.17N, 679.61W, Dog Leg 1.94 @ 4960'; 22.1° (TVD 4804'), AZM 321.80°, Vert Sect 1012.38', 731.35N, 701.74W, Dog Leg 1.02 @ 5052'. ROP 12.75, BGG 13. 24 hrs Drlg 4857-5163' (Slide 47' from 5110-5157'). Co. man on loc - Eggum. DMC \$7,456, CMC \$48,767, DWC \$35,568, CWC \$994,548

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

09-01-94: 5,500' - Made 337', Arapien, MW 9.2+, Vis 43, PV 13, YP 13, Gels 7/28, pH 9, WL 8, Solids 4.8%, Tr Sd, Chl 4200, FC 2/32. Barite on board: 658 sx. Bit #8: SE1075, Noz 4-10, Depth in 4106', Tot ftg 1394' in 90 hrs, ROP 15.8, Cond IH. WOB 14/20, RPM 60/120, Pmp press 1900, Circ rate 403, AV 181/264. Pmp #1 SPM-Liner 104 x 6; Pmp 2 SPM-Liner 0 x 6, Max pmp press 3000. BHA: Bit, L/S mud motor, float sub, 3 pt reamer, NMDC, HDS, 3 NMDC, XO, 15 - 6 1/2" DC's, Jars, 5 - DC's, XO. Length of BHA = 701.69'. Wt in mud below jars 42,000. Position of stabs abv bit: 2', 3 pt - 32'. Slow circ pmp #1: 40 SPM/600#. Surv: 23.4° (TVD 4891'), AZM 318.9°, Vert Sect 1048.84', 759.61N, 725.20W, Dog Leg 1.81 @ 5147'; 25.9° (TVD 4974'), AZM 315.7°, Vert Sect 1068.70', 787.46N, 750.96W, Dog Leg 3.11 @ 5238'; 27.7° (TVD 5142'), AZM 312.4°, Vert Sect 1173.06', 847.35N, 813.19W, Dog Leg .70 @ 5427'. ROP 15.8, BGG 10, Max BGU 20. 3 hrs Drlg 5163-5203. 1/2 hr Rig serv. 5 hrs Drlg 5203-5296'. 1 hr Circ samples; drlg brk #1 f/5270-5276'; TVD 5003-5008'; bit depth 5296'. 2 1/2 hrs Drlg 5296-5377'. 1 hr Tighten double pin sub on kelly. 11 hrs Drlg 5377-5500'. SHOW: 5270-5276' (TVD 5003-5008'), drl rate before = 1 1/2 MPF, during = 1 1/2 MPF, after = 1 1/2 MPF. Gas before = 20 un, during = 28 un, after = 20 un. 3 units Methane, 2 units Ethane. Co. man on loc - Eggum. DMC \$3,781, CMC \$52,548, DWC \$26,777, CWC \$1,021,325

09-02-94: 5,962' - Made 462', Arapien, MW 9.2, Vis 46, PV 15, YP 14, Gels 10/34, pH 9, WL 8, Solids 4.3%, Tr Sd, 1% oil, Chl 4300, FC 2/32. Barite on board: 658 sx. Bit #8: SE1075, Noz 4-10, Depth in 4106', Tot ftg 1856' in 110 hrs, ROP 16.8, Cond IH. WOB 15/20, RPM 70/75, Pmp press 2100, Circ rate 407, AV 152/206. Pmp #1 SPM-Liner 0 x 6; Pmp 2 SPM-Liner 116 x 6, Max pmp press 3000. BHA: Bit, L/S mud motor, float sub, 3 pt reamer, NMDC, HDS, 3 NMDC, XO, 15 - 6 1/2" DC's, Jars, 5 - DC's, XO. Length of BHA = 701.69'. Wt in mud below jars 42,000. Position of stabs abv bit: 2', 3 pt - 32'. Slow circ pmp #1: 40 SPM/600#. Surv: 26.2° (TVD 5308'), AZM 314.8°, Vert Sect 1259.81', 905.74N, 876.08W, Dog Leg 2.03 @ 5614'; 27.1° (TVD 5476'), AZM 317.8°, Vert Sect 1342.23', 965.76N, 932.63W, Dog Leg 1.54 @ 5801'; 28.1° (TVD 5560'), AZM 321.10°, Vert Sect 1385.61', 998.85N, 960.92W, Dog Leg 1.94 @ 5895'. ROP 24, BGG 12, Max BGU 12. 2 1/2 hrs Drlg 5500-5563'. 2 1/2 hrs Circ & short trip; 18 stds. Drag 75M# to 35M#. 1/2 hr Drlg 5563-5576'. 1/2 hr Serv rig. 1 hr Surv & orient tls. Fix double pin sub. 17 hrs Drlg 5576-5962'. Co. man on loc - Eggum. DMC \$2,633, CMC \$55,181, DWC \$22,962, CWC \$1,044,287

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

09-03-94: 6,257' - Made 295', Arapien, MW 9.2+, Vis 44, PV 14, YP 13, Gels 7/26, pH 9.2, WL 8, Solids 4.7%, Tr Sd, 1% oil, Chl 4700, FC 2/32. Barite on board: 658 sx. Bit #8: SE1075, Noz 4-10, Depth in 4106', Tot ftg 2151' in 130.5 hrs, ROP 16.5, Cond IH. WOB 5/15, RPM 65/75, Pmp press 2000, Circ rate 407, AV 152/206. Pmp #1 SPM-Liner 0 x 6; Pmp 2 SPM-Liner 118 x 6, Max pmp press 3000. BHA: Bit, L/S mud motor, float sub, 3 pt reamer, NMDC, HDS, 3 NMDC, XO, 15 - 6 1/2" DC's, Jars, 5 - DC's, XO. Length of BHA = 701.69'. Wt in mud below jars 42,000. Position of stabs abv bit: 2', 3 pt - 32'. Slow circ pmp #1: 40 SPM/600#. Surv: 26.5° (TVD 5642'), AZM 319.40°, Vert Sect 1428.06', 1031.65N, 988.17W, Dog Leg 1.91 @ 5988'; 25.9° (TVD 5725'), AZM 317.10°, Vert Sect 1469.03', 1062.28N, 1015.30W, Dog Leg 1.27 @ 6081'; 25.9° (TVD 5810'), AZM 316.70°, Vert Sect 1510.06', 1092.26N, 1043.56W, Dog Leg .19 @ 6175'. Avg ROP 14.4, Avg BGG 10, Max BGU 10. 1 hr Drlg 5962-5986' (Slide 5962-5984'). 1 hr Wrk tight hole; back rm 31' to 5986'; circ f/trip. 2 1/2 hrs Short trip f/5986-6137'; drag 75K dropping to 35K. 19 1/2 hrs Drlg 5986-6257' (Slide from 6231-6251'). Co. man on loc - Eggum. DMC \$5,785, CMC \$60,966, DWC \$26,605, CWC \$1,070,892

09-04-94: 6,368' - Made 111', Arapien, MW 9.2, Vis 45, PV 14, YP 14, Gels 10/30, pH 9.3, WL 8, Solids 4.7%, Tr Sd, 1% oil, Chl 4500, FC 2/32. Barite on board: 619 sx. Bit #8: SE1075, Noz 4-10, Depth in 4106', Tot ftg 2262' in 139 hrs, ROP 16.4, Cond IH. WOB 8/10, RPM 60/75, Pmp press 2200, Circ rate 427, AV 148/196. Pmp #1 SPM-Liner 104 x 6; Pmp 2 SPM-Liner 0 x 6, Max pmp press 3000. BHA: Bit, L/S mud motor, float sub, 3 pt reamer, NMDC, HDS, 3 NMDC, XO, 15 - 6-1/2" DC's, Jars, 5 - DC's, XO. Length of BHA = 701.69'. Wt in mud below jars 42,000. Position of stabs abv bit: 2', 3 pt - 32'. Slow circ pmp #1: 40 SPM/600#. Surv: 26.0° (TVD 5894'), AZM 315.30°, Vert Sect 1550.74', 1121.54N, 1071.83W, Dog Leg .67 @ 6268'. Avg ROP 15.8, Avg BGG 25, Max BGU 25. 7 1/2 hrs Drlg 6257-6368'. 1 1/2 hrs Mix & pmp high vis sweep f/trip. 15 hrs TOOH wrkg tight hole (string wt 183K). Back rm 6363-5211' & 4971-2460'. Stuck @ 3550' - spot ev. torque. Stuck @ 3535' - spot ev. torque to get loose. Drag 135K - 35K over string wt. Co. man on loc - Eggum. DMC \$4,053, CMC \$65,019, DWC \$32,665 CWC \$1,103,557

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

09-05-94: 6,494' - Made 126', Arapien, MW 9.2, Vis 44, PV 15, YP 13, Gels 8/20, pH 9.5, WL 8.0, Solids 4.7%, Tr Sd, 1% oil, Chl 4500, FC 2/32. Barite on board: 618 sx. Bit #8: SE1075, Noz 4-10, Depth in 4106', Tot ftg 2262' in 138 hrs, ROP 16.4, Cond 20% I. Bit #9: MM4125, EHP51A, Noz 3-11, Depth in 6368', Tot ftg 126' in 7 1/2 hrs, ROP 16.8. WOB 25/30, RPM 70/110, Pmp press 2700, Circ rate 436, AV 151/200. Pmp #1 SPM-Liner 103 x 6; Pmp 2 SPM-Liner 0 x 6, Max pmp press 3000. BHA: Bit, mud motor, float sub, 3 pt reamer, NMDC, Hang off sub, short NMDC, XO, 15 DC's, Drlg jars, 5 - DC's, Key seat wiper, XO, 15 HWPD. Length of BHA = 1163.16'. Wt in mud below jars 46,000. Position of stabs abv bit: 2', 3 pt - 32', Key seat - 707'. Slow circ pmp #1: 40 SPM/600#. Surv: 26.7° (TVD 5947'), AZM 316.20°, Vert Sect 1576.92', 1140.29N, 1090.1W, Dog Leg 1.37 @ 6327'; 26.1° (TVD 6030'), AZM 313.10°, Vert Sect 1618.26', 1169.35N, 1119.5W, Dog Leg 1.62 @ 6420'. Avg ROP 16.8, Avg BGG 12, Max BGU 12. 2 hrs TOOH back rmg 4971-2460'. 5 1/2 hrs Change out mud motor, 3 pt rmr & jar. PU Key seat wiper & 15 jts HWDP. 3 hrs Shorten block hanging cable; cut drlg line. 1/2 hr Change out elevators to repair hydraulics. 2 hrs TIH, wash bridges 2775-2837' & 2930-3023'. 1/2 hr Change back to repaired hydraulic elevators. 3 hrs TIH (Rm 80' to btm - 6368'). 7 1/2 hrs Drlg 6368-6494' (slide 6381-6410'). Co. man on loc - Eggum. DMC \$1,947, CMC \$66,966, DWC \$30,680, CWC \$1,134,237

09-06-94: 6,868' - Made 374', Arapien, MW 9.3+, Vis 41, PV 12, YP 11, Gels 7/9, pH 9, WL 8, Solids 4.7%, Tr Sd, Chl 4000, FC 2/32. Barite on board: 618 sx. Bit #9: MM4125, EHP51A, Noz 3-11, Depth in 6368', Tot ftg 500' in 28 1/2 hrs, ROP 17.5, Cond IH. WOB 20/40, RPM 80/85, Pmp press 2300, Circ rate 436, AV 151/200. Pmp #1 SPM-Liner 104 x 6; Pmp 2 SPM-Liner 0 x 6, Max pmp press 3000. BHA: Bit, mud motor, float sub, 3 pt reamer, NMDC, Hang off sub, short NMDC, XO, 15 DC's, Drlg jars, 5 - DC's, Key seat wiper, XO, 15 HWPD. Length of BHA = 1163.16'. Wt in mud below jars 46,000. Position of stabs abv bit: 2', 3 pt - 32', Key seat - 707'. Slow circ pmp #1: 40 SPM/600#. Surv: 25.7° (TVD 6115'), AZM 314.30°, Vert Sect 1659.31', 1197.72N, 1149.18W, Dog Leg .70 @ 6514'; 22.60° (TVD 6286'), AZM 312.40°, Vert Sect 1734.99', 1250.24N, 1203.67W, Dog Leg 1.39 @ 6701'; 22.70° (TVD 6372'), AZM 311.50°, Vert Sect 1771.14', 1274.44N, 1230.59W, Dog Leg .38 @ 6795'. Avg ROP 17.8, Avg BGG 10, Max BGU 10. 6 hrs Drlg 6494-6661'. 1 1/2 hrs Wsh & rm f/connection & surv. 1/2 hr Repl torque gauge on rotary read-out. 15 hrs Drlg 6661-6868'; slide 6664-6679' & 6757-6777'; lost 500# pmp press. 2 hrs Trip f/lost pmp press. Co. men on loc - Simpson/Eggum. DMC \$5,205, CMC \$72,171, DWC \$29,684, CWC \$1,163,921

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

09-07-94: 6,869' - Made 1', Arapien, MW 9.6, Vis 46, PV 17, YP 12, Gels 7/18, pH 9.6, WL 7.6, Solids 6.7%, Tr Sd, Chl 2100, FC 3/64. Bit #9: MM4125, EHP51A, Noz 3-11, Depth in 6368', Tot fgt 500' in 28½ hrs, ROP 17.5, Cond 8-8-1½. Bit #10: Junk mill, Noz 4-12, Depth in 6868, Tot fgt 1' in 4½ hrs. WOB 3/6, RPM 90, Pmp press 400. Pmp #1 SPM-Liner 90 x 6; Pmp 2 SPM-Liner 0 x 6, Max pmp press 3000. BHA: Mill, JB, bit sub, 15 DC's, jars, 5 DC's, key seat wiper, XO, 15 HWPDP. Length of BHA = 1093.12'. Wt in mud below jars 44,000. Slow circ pmp #1: 40 SPM/600#. Surv: 22.7° (TVD 6372'), AZM 311.50°, Vert Sect 1771.14', 1274.44N, 1230.59W, Dog Leg .38 @ 6795'. 12 hrs Chain out of hole; tight hole 6868-3100'. Lost 3 cones in hole. 2 hrs LD motor, 3 pt rmr & monel DC. PU 8-3/8" junk mill w/JB. 4 hrs RIH w/mill; tight @ 2800'. Rmd 2800-2850'. RIH to 6823'. 1½ hrs Rmd 6823-6868'; 45' to btm very tight; torque up; stall rotary to stop. 4½ hrs Milling on junk 6868-6869'. Co. man on loc - Simpson. DMC \$3,438, CMC \$75,609, DWC \$31,225, CWC \$1,195,146

09-08-94: 6,869' - Made 0', Arapien, MW 9.6, Vis 40, PV 14, YP 10, Gels 5/12, pH 9.5, WL 5.9, Solids 7%, Tr Sd, Chl 3900, FC 1/32. Bit #10: Junk mill, Noz 4-12, Depth in 6868, Tot fgt 1' in 4½ hrs, ROP 0.2, Cond III. WOB 10/15M, RPM 90, Pmp press 1000#, Circ rate 436, AV 226/356. Pmp #1 SPM-Liner 104 x 6; Pmp 2 SPM-Liner 0 x 6, Max pmp press 3000. BHA: Mill, JB, bit sub, 15 DC's, jars, 5 DC's, keyseat wiper, XO, 15 HWPDP. Length of BHA = 1093.12'. Wt in mud below jars 44,000. Position of stabs abv bit: 2 - keyseat wiper. 4 hrs Milling on junk @ 6869'. 5 hrs Slug pipe, POOH to 3540' w/keyseat wiper @ 2899'. 4½ hrs Attempt to wrk thru keyseat without success. 1 hr PU 2nd keyseat wiper in string & RIH to wrk on keyseat from abv. RIH w/bit to 5953' - 2nd keyseat wiper @ 2465'. 9½ hrs Rm keyseat interval f/2465-2880'; very hard @ 2880' & unable to brk thru. Prep to POOH & wrk on keyseat w/btm keyseat wiper. Co. man on loc - Simpson. DMC \$6,358, CMC \$81,967, DWC \$33,333, CWC \$1,228,479

09-09-94: 6,869' - Made 0', Arapien, MW 9.7, Vis 40, PV 12, YP 10, Gels 4/9, pH 9.0, WL 7.6, Solids 7%, Tr Sd, Chl 3900, FC 1/32. Bit #10: DM2154, HP61A, Noz 3-12, Depth in 6869'. Max pmp press 3000. BHA: Bit, mtr stab, bent sub, float sub, rmr, NMDC, HOS, NMDC, XO, 15 DC's, jar, 2 DC's, stab, XO, 15 HWDP. Length of BHA = 1077.19'. 1 hr Rmg on keyseat w/wiper @ 6400'. Top wiper @ 2880' - would not go dn below 6400'. 3 hrs POOH to 3554'. 2½ hrs Wrkg on tight spot 2901-2880'; back rm. 1 hr POH. ½ hr Chg out elevators. 2½ hrs Trip out, LD jars, mill, cln JB. 5 hrs TIH w/magnet. 2 hrs Wrk magnet & junk sub. Pmpd 100 bbls Turbo Chem. 4½ hrs POH w/magnet; cln junk out. 2 hrs PU mud motr & bit; GIH to drl. Co. man on loc - Simpson. DMC \$618, CMC \$82,585, DWC \$26,533, CWC \$1,255,012

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

09-10-94: 7,109' - Made 241', Arapien, MW 9.7, Vis 42, PV 14, YP 9, Gels 3/8, pH 9.0, WL 6.4, Solids 8%, Tr Sd, Chl 3700, FC 1/32. Bit #10: DM2154, HP61A, Noz 3-12, Depth in 6868', Tot ftg 241' in 15½ hrs, ROP 15.5, Cond IH. WOB 30-40, RPM 110, Pmp press 2450, Circ rate 436 GPM, AV 226/356. Pmp 1 SPM-Liner 104 x 6 x 12. Max pmp press 3000. BHA: Bit, motor, float sub, 3 pt rmr, monel, MWD, SMDC, XO, 15 DC's, jars, 2 DC's, key seat wiper, XO, 15 HWDP. Length of BHA = 1077.19'. Wt in mud below jars 41,000#, Position of stabs abv bit 31 - 4168'. Surv: 23.7° (6524.11' TVD), AZM 310.80°, Vert Sect 1836.42', 1318.17N, 1279.16W, Dogleg .95 @ 6960.00'; 22.6° (6610.54' TVD), AZM 309.70°, Vert Sect 1873.26', 1342.05N, 1307.35W, Dog leg 1.26 @ 7054'. 3 hrs RIH w/bit #1, mud motor & MWD. 1½ hrs Wshd & rmd 132' to btm. 3½ hrs Drlg f/6868-6922' (54'). ½ hr Wshd & rmd f/conn & surv. 3½ hrs Drlg 6922-6971'. ½ hrs Wshd & rmd out tight hole 6971-6953'. 4 hrs Drlg 6971-7016'. 2½ hrs Rmg hole & surv - tried to slide. 4½ hrs Drlg 7016-7109'. ½ hr Rmg hole out. Co. man on loc - Simpson. DMC \$3,411, CMC \$85,997, DWC \$29,499, CWC \$1,284,511

09-11-94: 7,177' - Made 68', Sand & LS, MW 9.6, Vis 46, PV 18, YP 9, Gels 4/11, pH 9.5, WL 7.6, Solids 8%, Tr Sd, Chl 4000, FC 1/32. Bit #10: DM2154, HP61A, Noz 3-12, Depth in 6868', Tot ftg 272' in 17 hrs, ROP 16.0, Cond 5-4-¼. Bit #11: MM4591, HP61, Noz 3-12, Depth in 7140', Tot ftg 37' in 4 hrs, ROP 9.2, Cond IH. Pmp 1 SPM-Liner 0 x 6 x 12; Pmp 2 SPM-liner 0 x 6 x 10. Max pmp press 3000. BHA: Bit, motor, float sub, IBS, monel, MWD, SMDC, XO, 15 DC's, jars, 2 DC's, key seat wiper, XO, 15 HWDP. Length of BHA = 1075.33'. Wt in mud below jars 41,000#, Position of stabs abv bit 29 - 4168'. Surv: 22.6° (6610.54' TVD), AZM 309.70°, Vert Sect 1873.26', 1342.05N, 1307.35W, Dogleg 1.26 @ 7054'. 2 hrs Drlg w/motor & MWD 7109-7140'. 5½ hrs SLM out of hole; no core. 1½ hrs Chg bit, btm stab on motor & 3 pt rmr. 3 hrs RIH w/bit #11, mud motor & MWD. 1½ hrs Rmd & wshd 6960-7140'; 180' to btm. 1½ hrs Drlg w/bit #11, mud motor & MWD 7140-7160'. 2 hrs Wrkg tight, rmg & wshg. ½ hr Drlg 7160-7164'; lost 600 psi surf equip. 4½ hrs Chain out f/hole, 31 stds dn, tst pipe & RIH. 2 hrs Drlg w/motor & MWD 7164-7177'. Co. man on loc - Simpson. DMC \$461, CMC \$86,458, DWC \$48,327, CWC \$1,332,838

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

09-12-94: 7,307' - Made 130', Sand & LS, MW 9.5, Vis 41, PV 12, YP 8, Gels 3/8, pH 8.5, WL 6.8, Solids 7%, Tr Sd, Chl 3300, FC 1/32. Bit #11: MM4591, HP61, Noz 3-12, Depth in 7140', Tot ftg 167' in 16½ hrs, ROP 10.1. WOB 30-40,000#, RPM 70-180, Pmp press 2500, Circ rate 427 GPM, AV 221/349. Pmp 1 SPM-Liner 104 x 6 x 12; Pmp 2 SPM-liner 0 x 6 x 10. Max pmp press 3000. BHA: Bit, motor, float sub, IBS, monel, MWD, SMDC, XO, 15 DC's, jars, 2 DC's, key seat wiper, XO, 15 HWDP. Length of BHA = 1075.33'. Wt in mud below jars 41,000#, Position of stabs abv bit 29 - 4168'. Surv: 21.6° (6727.57' TVD), AZM 311.80°, Vert Sect 1919.78', 1372.13N, 1343.04W, Dogleg 2.00 @ 7180'. 4½ hrs Drlg 8½" hole w/bit #11, mud motor & MWD f/7177-7223'. ½ hr Rmg tight hole. 1 hr Repair top drive, repl 'O' ring in pmp. 1 hr Drlg 8½" hole w/bit #11, motor & MWD f/7223-7232'. ½ hr Rmd & surv. 3 hrs Drlg w/motor & MWD f/7232-7271'. ½ hr Wrkg tight hole. 1 hr Drlg 7271-7283'. ½ hr Attempted to slide; would not. 2½ hrs Drlg 7283-7307'. 7½ hrs Slug pipe & POH w/bit #11; very tight hole @ 3130'. Wrkd thru, back rmd up to 3050' - very hard. 1½ hrs Cont out of hole. Tight @ 2819-2800'. From 7307-3130' very little drag; hole @ 3130-3050' tight & sticking; had to back rm all the way thru. Co. man on loc - Simpson. DMC \$2,506, CMC \$88,965, DWC \$42,294, CWC \$1,375,132

09-13-94: 7,480' - Made 173', Sandstone, MW 9.6, Vis 41, PV 12, YP 8, Gels 3/8, pH 9.0, WL 6.4, Solids 7%, Tr Sd, Chl 3300, FC 1/32. Bit #12: MM4586, HP61, Noz 3-12, Depth in 7307', Tot ftg 173' in 10½ hrs, ROP 16.4, Cond IH. WOB 35-40,000#, RPM 70-180, Pmp press 2500, Circ rate 436 GPM, AV 226/356. Pmp 1 SPM-Liner 104 x 6 x 12; Pmp 2 SPM-liner 0 x 6 x 10. Max pmp press 3000. BHA: Bit, motor, float sub, IBS, NMDC, HOS, SNMDC, XO, 15 DC's, jars, 2 DC's, key seat wiper, XO, 15 HWDP. Length of BHA = 1075.33'. Wt in mud below jars 41,000#, Position of stabs abv bit: 29', BHA hrs 278, PU wt 325K, Slackoff wt 140M. Surv: 21.8° (6814.91' TVD), AZM 309.4°, Vert Sect 1954.44', 1394.74N, 1369.46W, Dogleg .97 @ 7272'; 22.6° (6901.02' TVD), AZM 307.8°, Vert Sect 1989.38', 1416.65N, 1396.89W, Dog leg 1.08 @ 7367'. 2 hrs Fin POH w/bit #11, LD mud motor & IBS. 2½ hrs PU new motor; orient f/MWD & TIH w/BHA. 1 hr Tst MWD below 9-5/8" csg shoe & would not tst. 2 hrs POOH & change out MWD. 3 hrs TIH, tst & cont TIH. 1 hr Wshd & rmd 80' to btm. ½ hr Drlg 7307-7322'. ½ hr Back rm & surv. 6½ hrs Drlg 7322-7417'; slide 7356-7366'. ½ hr Back rm & surv. 4½ hrs Drlg 7417-7480'. Co. man on loc - Simpson. DMC \$6,243, CMC \$95,209, DWC \$34,388, CWC \$1,409,520

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

09-14-94: 7,560' - Made 80', Sandstone, MW 9.7, Vis 41, PV 11, YP 10, Gels 3/8, pH 9.0, WL 7.6, Solids 8%, Tr Sd, Chl 3300, FC 1/32. Bit #12: MM4586, HP61, Noz 3-12, Depth in 7307', Tot fgt 253' in 16 hrs, ROP 15.8, Cond 6-4-1/4. Bit #13: 647311, M84F, Noz 3-12, Depth in 7560', Cond IH. WOB 30-40,000#, RPM 60, Pmp press 2400, Circ rate 436 GPM, AV 226/356. Pmp 1 SPM-Liner 104 x 6 x 12; Pmp 2 SPM-liner 0 x 6 x 10. Max pmp press 3000. BHA: Bit, stab, 1.25 LS, float sub, monel, MWD, SMDC, XO, 15 DC's, jars, 2 DC's, key seat wiper, XO, 15 HWDP. Length of BHA = 1071.52'. Wt in mud below jars 41,000#. Surv: 24.0° (6987.35' TVD), AZM 307.3°, Vert Sect 2026.23', 1439.31N, 1426.37W, Dogleg 1.50 @ 7461'. 2 1/2 hrs Drlg w/bit #12, motor & MWD f/7480-7509'. 1/2 hr Wshd, rmd, conn & surv. 3 hrs Drlg w/bit #12, mud motor & MWD f/7509-7560'. 5 hrs Slug pipe & POH w/bit #12. 2 hrs Chg bit & MWD, RIH to btm of csg. 1 1/2 hrs Slip & cut drlg line. 4 hrs Repair wtr line in drum. 3 1/2 hrs RIH w/bit #13 to 7420'. 2 hrs Wsh & rm f/7420-7560'. On btm @ 5AM. Co. man on loc - Simpson. DMC \$7,838, CMC \$103,047, DWC \$35,888, CWC \$1,444,410

09-15-94: 7,726' - Made 166', Sandstone, MW 9.8, Vis 43, PV 13, YP 10, Gels 5/10, pH 9.0, WL 6.8, Solids 9%, Tr Sd, Chl 3100, FC 1/32. Bit #13: 647311, M84F, Noz 3-12, Depth in 7560', Tot fgt 166' in 8 1/2 hrs, ROP 19.5, Cond IH. WOB 40,000#, RPM 60-170, Pmp press 2500, Circ rate 436 GPM, AV 226/356. Pmp 1 SPM-Liner 104 x 6 x 12; Pmp 2 SPM-liner 0 x 6 x 10. Max pmp press 3000. BHA: Bit, 3 pt rmr, SMDC, 3 pt rmr, monel, DC, stab, DC, stab, XO, 15 DC's, jars, 2 DC's, XO, 15 HWDP. Length of BHA = 1081'. Wt in mud below jars 41,000#. Position of stabs abv bit: 7-22-54-88. Surv: 25.7° (7072.65' TVD), AZM 305.1°, Vert Sect 2065.32', 1462.62N, 1458.25W, Dogleg 2.06 @ 7555'; 26.1° (7158.11' TVD), AZM 305.1°, Vert Sect 2106.24', 1486.47N, 1492.20W, Dog leg .42 @ 7670'. 2 hrs Drlg w/bit #13, motor & MWD f/7560-7600'. 1/2 hr Wshd, rmd, surv & conn. 5 1/2 hrs Drlg w/bit #13, mud motor & MWD f/7600-7698'. 1/2 hr Wshd, rmd, surv & conn. 1/2 hr Drlg w/bit #13, mud motor & MWD f/7698-7706'. 1/2 hr Gain pmp press - rmg hole. 1/2 hr Drlg f/7706-7726'. 3 hrs Rmg tight hole - slug pipe. 5 hrs POOH; tight hole @ 3515'. 4 1/2 hrs Inspect BHA, magnaflux 6 1/2" DC's & subs - no bad conn. 1 1/2 hrs PU new BHA & RIH. Co. man on loc - Simpson. DMC \$13,220, CMC \$116,268, DWC \$39,357, CWC \$1,483,767

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

09-16-94: 7,726' - Made 0', Sandstone, MW 9.8, Vis 46, PV 16, YP 12, Gels 6/14, pH 9.0, WL 6.8, Solids 9%, Tr Sd, Chl 3000, FC 1/32. Bit #13: 647311, M84F, Noz 3-12, Depth in 7560', Tot fgt 1122' in 17 hrs, ROP 19.5, Cond 3-3-1/16. Bit #14: 647470, M84F, Noz 3-12, Depth in 7726'. WOB 2-8,000#, RPM 100, Pmp press 1800, Circ rate 377 GPM, AV 195/308. Pmp 1 SPM-Liner 93 x 6 x 12; Pmp 2 SPM-liner 0 x 6 x 10. Max pmp press 3000. BHA: Bit, stab screw on, motor, float sub, monel, DC, HOS, SMDC, XO, 15 DC's, jars, 2 DC's, XO, 15 HWDP. Length of BHA = 1062.69'. Wt in mud below jars 41,000#. 2 hrs Fin PU BHA & RIH to rm keyseat to 2582'. 8 1/2 hrs Wshg & rmg out keyseat from 2582-3704'. 1 hr Pmpd pill & POH; tight @ 2831'. 1/2 hr Rmd out tight spot @ 2831'. 3 hrs POOH, LD BHA. 1 hr PU new BHA. 1 hr Orient MWD & tst motor & MWD. 1 hr RIH to 2948' - bridge. 3 hrs Wshg & rmg bridges 2948-3122'; 3216-3310' & 3856-3876'. From 3949-4063' lost 500 psi pmp press. 3 hrs POH, chain out f/press loss - pulling wet - looking f/wash out. Co. man on loc - Simpson. DMC \$442, CMC \$116,711, DWC \$36,160, CWC \$1,519,925

09-17-94: 7,910' - Made 184', Sandstone, MW 9.7, Vis 43, PV 14, YP 8, Gels 4/11, pH 9.0, WL 6.4, Solids 8.5%, Tr Sd, Chl 3000, FC 1/32. Bit #14: 647470, M84F, Noz 3-12, Depth in 7726', Tot fgt 184' in 11 hrs, ROP 16.7, Cond IH. WOB 30-40,000#, RPM 60-170, Pmp press 2000, Circ rate 391 GPM, AV 203/319. Pmp 1 SPM-Liner 0 x 6 x 12; Pmp 2 SPM-liner 112 x 6 x 10. Max pmp press 3000. BHA: Bit, mud motor, float sub, monel, DC, SMDC, MWD, XO, 15 DC's, jars, 2 DC's, XO, 15 HWDP. Length of BHA = 1061.34'. Wt in mud below jars 41,000#. Position of stabs abv bit: 2' & 5026'. Surv: 25.0° (7314.95' TVD), AZM 304.80°, Vert Sect 2180.30', 1528.79N, 1554.54W, Dog leg 1.09 @ 7824.00'. 2 hrs Chain out of hole wet; looking f/wsh out. LD dump vlv on top of motor. 1 hr RIH to csg shoe @ 2460'. Tst MWD; 500# press loss. 1 hr POH f/washout. Found it in slip area on 2nd jt of DP abv HWDP. 3 1/2 hrs RIH w/bit #14 & mud motor & MWD. Rmd out tight spot 4062-4155' & 4720-4810'. 1 hr Wshd & rmd 120' to btm f/7606-7716'. 4 hrs Drlg w/bit #14, motor & MWD f/7726-7780'. 1/2 hr Wsh & rm, surv, conn. 8 hrs Drlg w/bit #14, motor & MWD f/7780-7910'. 1 1/2 hrs Wrkg tight hole @ 7910'; stuck @ 7910'; wrk free. 1 1/2 hrs Short trip; wrkg tight hole; pull up to 7442'. Co. man on loc - Simpson. DMC \$3,936, CMC \$120,647, DWC \$29,277, CWC \$1,549,156

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

09-18-94: 8,000' - Made 90', Sandstone, MW 9.8, Vis 46, PV 17, YP 10, Gels 4/10, pH 9.6, WL 5.8, Solids 9.5%, Tr Sd, Chl 3200, FC 1/32. Bit #14: 647470, M84F, Noz 3-12, Depth in 7726', Tot ftg 274' in 16 hrs, ROP 17.1, Cond 8-8 1/4. Bit #15, BM9044, HP61A, Noz 3-12, Depth in 8000'. WOB 40,000#, RPM 80-190, Pmp press 2000, Circ rate 391 GPM, AV 203/319. Pmp 1 SPM-Liner 0 x 6 x 12; Pmp 2 SPM-liner 112 x 6 x 10. Max pmp press 3000. BHA: Bit, stab, LS, float sub, monel, DC, MWD, SMDC, XO, 15 DC's, jars, 2 DC's, XO, 4 HWDP, 3 pt rmr, 11 HWDP. Length of BHA = 1069.58'. Wt in mud below jars 41,000#. Surv: 25.5° (7400.87' TVD), AZM 305.90°, Vert Sect 2220.29', 1552.23N, 1587.59W, Dog Leg .72 @ 7919'. 2 hrs Wshd & rmd back to btm 7442-7910'. 3 hrs POH to wtr melon rmr. Moved up hole 190' to 2700'. 1 hr RIH; wshd 35' to btm (7910'). 2 1/2 hrs Drlg w/bit #14, mud motor & MWD f/7910-7967'. 1/2 hr Wshd & rmd, surv, conn. 2 1/2 hrs Drlg w/bit #14, mud motor & MWD 7967-8000'. 8 hrs POH f/bit; spot Turbo Chem pill; tight hole. 1 1/2 hrs Change bit, sleeve on motor & tst MWD. 3 hrs GIH w/bit #15. Co. man on loc - Simpson. DMC \$11,071, CMC \$131,719, DWC \$42,103, CWC \$1,591,259

09-19-94: 8,106' - Made 106', Sandstone, MW 9.7, Vis 44, PV 17, YP 8, Gels 3/8, pH 9.2, WL 5.8, Solids 9%, Tr Sd, Chl 3000, FC 1/32. Bit #15, BM9044, HP61A, Noz 3-12, Depth in 8000', Tot ftg 106' in 5 hrs, ROP 21.2, Cond 8-3 1/4. Bit #16: BM9045, HP61A, Noz 3-12, Depth in 8106', Cond IH. WOB 40,000#, RPM 80-190, Pmp press 1500, Circ rate 377 GPM, AV 195/308. Pmp 1 SPM-Liner 90 x 6 x 12; Pmp 2 SPM-liner 0 x 6 x 10. Max pmp press 3000. BHA: Bit, Motor, float sub, monel, DC, MWD, SMDC, XO, 27 HWDP, XO, jars, XO, 3 HWDP. Length of BHA = 1020.96'. Wt in mud below jars 30,000#. Surv: 26.9° @ 8022'. 3 hrs RIH w/bit #15, change out wtr melon rmr & rmd to 3 pt rmr. 1 hr Wshd & rmd 130' to btm (8000'). 6 hrs Drlg w/bit #15, mud motor & MWD f/8000-8106'; very high torque. 1 hr Wrkg pipe; trying to rotary - no success. 6 hrs POH to change BHA; change bit. 3 1/2 hrs PU HWDP & check mud motor & MWD; RIH. 1/2 hr Tst MWD & motor. 3 hrs Cont in hole; rm 3000-3100'. Co. man on loc - Simpson. DMC \$1,808, CMC \$133,527, DWC \$34,415, CWC \$1,644,279

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

09-20-94: 8,254' - Made 148', Sandstone, MW 9.7, Vis 41, PV 15, YP 7, Gels 3/8, pH 9.5, WL 6.4, Solids 9%, Tr Sd, Chl 3000, FC 1/32. Bit #16: BM9045, HP61A, Noz 3-12, Depth in 8106', Tot fgt 148' in 12 hrs, ROP 12.3, Cond 8-3/4. Bit #17: MM4462, HP62A, Noz 3-12, Depth in 8254'. WOB 35,000#, RPM 30-135, Pmp press 1600, Circ rate 377 GPM, AV 195/308. Pmp 1 SPM-Liner 90 x 6 x 12; Pmp 2 SPM-liner 0 x 6 x 10. Max pmp press 3000. BHA: Bit, Motor, float sub, monel, DC, MWD, SMDC, XO, 27 HWDP, XO, jars, XO, 3 HWDP. Length of BHA = 1020.96'. Wt in mud below jars 37,000#. Position of stabs abv bit: 1'. Surv: 26.7° (7560'TVD), AZM 306.7°, Vert Sect 2298.81', 1599N, 1651W, Dog Leg .40 @ 8097'; 26.5° (7643.35'TVD), AZM 306.2°, Vert Sect 2340.02', 1624.39N, 1684.63W, Dog Leg .32 @ 8190'. 1 1/2 hrs Wshd & rmd f/7866-8106' (240' to btm). 4 hrs Drlg w/bit #16, mud motor & MWD 8106-8145'. 1/2 hr Wshd & rmd, surv, conn. 6 1/2 hrs Drlg w/bit #16, mud motor & MWD f/8145-8240'. 1/2 hr Rmd & surv. 1 1/2 hrs Drlg w/bit #16 f/8240-8254'. 4 1/2 hrs POH w/bit #16, set screw in jet. 1/2 hr Wrk BOP's, chg bit & motor sleeve. 4 1/2 hrs RIH w/bit #17. Fill pipe 2460-5500'. Co. man on loc - Simpson. DMC \$2,476, CMC \$136,003, DWC \$32,036, CWC \$1,676,315

09-21-94: 8,406' - Made 152', Sandstone, MW 9.7, Vis 43, PV 16, YP 10, Gels 5/10, pH 9.5, WL 5.6, Solids 9%, Tr Sd, Chl 3000, FC 1/32. Bit #17: MM4462, HP62A, Noz 3-12, Depth in 8254', Tot fgt 152' in 12 1/2 hrs, ROP 12.1, Cond 4-3-1/16. Bit #18: JC6584, HP62A, Noz 3-12, Depth in 8406'. WOB 35,000#, RPM 125, Pmp press 1200, Circ rate 335 GPM, AV 174/274. Pmp 1 SPM-Liner 80 x 6 x 12; Pmp 2 SPM-liner 0 x 6 x 10. Max pmp press 3000. BHA: Bit, Motor, float sub, monel, DC, MWD, SMDC, XO, 27 HWDP, XO, jars, XO, 3 HWDP. Length of BHA = 1020.96'. Wt in mud below jars 37,000#. Position of stabs abv bit: 1'. Slow circ pmp 1: 40-500. Surv: 26.5° (7643.39'TVD), AZM 306.2°, Vert Sect 2340.02', 1624.39N, 1684.63W, Dog Leg .32 @ 8190'; 25.6° (7726.94'TVD), AZM 303.8°, Vert Sect 2380.27', 1647.83N, 1718.07W, Dog Leg 1.49 @ 8283'. 1 1/2 hrs Wshd & rmd f/8004-8254' f/safety (250' to btm). 7 hrs Drlg w/bit #17, mud motor & MWD 8254-8333'; slide 8304-8315' (11'). 1/2 hr Wshd & rmd, surv, conn. 5 1/2 hrs Drlg w/bit #17, mud motor & MWD f/8333-8406'. 1/2 hr Surv & slug pipe. 5 hrs POOH w/bit #17. 1/2 hr Wrk BOP's, change bit. 1/2 hr RIH. 1/2 hr Change dies in grabber (in top drive). 2 1/2 hrs RIH w/bit #18. Co. man on loc - Simpson. DMC \$5,454, CMC \$141,458, DWC \$33,796, CWC \$1,710,111

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

09-22-94: 8,540' - Made 134', Sandstone, MW 9.7, Vis 44, PV 16, YP 11, Gels 4/9, pH 9.7, WL 5.6, Solids 9%, Tr Sd, Chl 3000, FC 1/32. Bit #18: JC6584, HP62A, Noz 3-12, Depth in 8406', Tot ftg 134' in 10½ hrs, ROP 12.7, Cond 2-2-I. Bit #19: MM4436, HP62A, Noz 3-12, Depth in 8540'. WOB 35,000#, RPM 125, Pmp press 1300, Circ rate 335 GPM, AV 174/274. Pmp 1 SPM-Liner 0 x 6 x 12; Pmp 2 SPM-liner 96 x 6 x 10. Max pmp press 3000. BHA: Bit, Motor, float sub, monel, DC, MWD, SMDC, XO, 27 HWDP, XO, jars, XO, 3 HWDP. Length of BHA = 1020.96'. Wt in mud below jars 37,000#. Position of stabs abv bit: 1'. Slow circ pmp 1: 40-500. Surv: 24.5° (7897.92'TVD), AZM 308.5°, Vert Sect 2459.78', 1694.81N, 1783.44W, Dog Leg 1.71 @ 8472'. 1½ hrs RIH w/bit #18 to 8246'. 1 hr Wsh & rmd f/8246-8406' f/safety. ½ hr Slide from 8406-8427'. ½ hr Rm hole, surv, conn. 7½ hrs Drlg w/bit #18, mud motor & MWD f/8427-8522'. 1 hr Wshd, rmd & surv. 2½ hrs Drlg w/bit #18 f/8522-8540'. 1½ hrs Check mud motor, circ, pmpd Turbo Chem pill, slug pipe. 5 hrs POH f/mud motor, wrk BOP's. 2 hrs LD mud motor, PU new motor, MWD & bit, tst motor. 1 hr RIH w/HWDP, cut drlg line. Co. man on loc - Simpson. DMC \$5,419, CMC \$146,877, DWC \$36,010, CWC \$1,746,121

09-23-94: 8,745' - Made 205', Sandstone, MW 9.6, Vis 44, PV 18, YP 12, Gels 4/10, pH 9.8, WL 5.6, Solids 9%, Tr Sd, Chl 2800, FC 1/32. Bit #19: MM4436, HP62A, Noz 3-12, Depth in 8540', Tot ftg 205' in 18½ hrs, ROP 11, Cond IH. WOB 35-38,000#, RPM 115, Pmp press 1500, Circ rate 335 GPM, AV 174/274. Pmp 1 SPM-Liner 80 x 6 x 12; Pmp 2 SPM-liner 0 x 6 x 10. Max pmp press 3000. BHA: Bit, Motor, float sub, monel, DC, MWD, SMDC, XO, 27 HWDP, XO, jars, XO, 3 HWDP. Length of BHA = 1020.96'. Wt in mud below jars 37,000#. Position of stabs abv bit: 1'. Slow circ pmp 1: 40-550. Surv: 24.0° (7984.54'TVD), AZM 309.30°, Vert Sect 2498.60', 1719.31N, 1813.81W, Dog Leg .63 @ 8567'; 24.4° (8069.37'TVD), AZM 310.80°, Vert Sect 2536.60', 1743.84N, 1842.99W, Dog Leg .79 @ 8660'. 1 hr Slip & cut drlg line. 3 hrs RIH w/bit #19 to 8430'. ½ hr Wshd & rmd 110' to btm f/safety. 7 hrs Drlg w/bit #19, Mud motor & MWD f/8540-8617'; slide 8557-8567'. ½ hr Rmd, surv, conn. 7½ hrs Drlg w/bit #19, Mud motor, MWD f/8617-8710'. ½ hr Rmd, surv, conn. 4 hrs Drlg w/bit #19, Mud motor & MWD f/8710-8745', slide @ 8744'. Co. man on loc - Simpson. DMC \$3,887, CMC \$150,765, DWC \$31,064, CWC \$1,777,182

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

09-24-94: 8,810' - Made 65', Sandstone, MW 9.7, Vis 42, PV 16, YP 10, Gels 3/7, pH 9.7, WL 6.0, Solids 8%, Tr Sd, Chl 2600, FC 1/32. Bit #19: MM4436, HP62A, Noz 3-12, Depth in 8540', Tot ftg 234' in 20½ hrs, ROP 11.4, Cond 4-6-1/8. Bit #20: MM4435, HP62A, Noz 3-12, Depth in 8774', Tot ftg 36' in 3 hrs, ROP 12.0, Cond IH. WOB 35,000#, RPM 172, Pmp press 1700, Circ rate 343 GPM, AV 178/280. Pmp 1 SPM-Liner 82 x 6 x 12; Pmp 2 SPM-liner 0 x 6 x 10. Max pmp press 3000. BHA: Bit, Motor, float sub, monel, DC, MWD, SMDC, XO, 27 HWDP, XO, jars, XO, 3 HWDP. Length of BHA = 1020.96'. Wt in mud below jars 37,000#. Position of stabs abv bit: 1'. Slow circ pmp 1: 40-550. Surv: 23.6° (8157.07'TVD), AZM 313.10°, Vert Sect 2575.59', 1769.93N, 1872.03W, Dog Leg 1.28 @ 8756'. 2 hrs Drlg w/bit #19, mud motor & MWD f/8745-8774'; slide 8744-8754'. 5 hrs Pmp pill & POH w/bit #19. Tight @ 2617-3679'. 7 hrs Chg gasket in top doors in BOP's, pipe & blind rams. Tst BOP's, manifold, top drive, upper & lower kelly vlvs, all floor vlvs, pipe & blind rams (250 psi low & 5000 psi high); annulus to 250 psi low & 2500 psi high - All OK. Need dart vlv. 1 hr Chg bit & tst MWD. 4½ hrs RIH w/bit #20, LD 3 jts of DP washed. 1½ hrs Wshd & rmd 180' to btm; last 60' very tight f/8594-8774' (to btm). 3 hrs Drlg w/bit #20, mud motor & MWD f/8774-8810'; slide 8806-8811'. Co. man on loc - Simpson. DMC \$6,848, CMC \$157,613, DWC \$40,977, CWC \$1,818,159

09-25-94: 8,960' - Made 150', Sandstone, MW 9.7, Vis 45, PV 19, YP 13, Gels 4/9, pH 9.8, WL 6.0, Solids 8%, Tr Sd, Chl 2800, FC 1/32. Bit #20: MM4435, HP62A, Noz 3-12, Depth in 8774', Tot ftg 186' in 19½ hrs, ROP 9.5, Cond 4-4-1/16. Bit #21: MM4459, HP 62A, Noz 3-12, Depth in 8960', Cond IH. WOB 35,000#, RPM 115, Pmp press 1700, Circ rate 335 GPM, AV 174/274. Pmp 1 SPM-Liner 80 x 6 x 12; Pmp 2 SPM-liner 0 x 6 x 10. Max pmp press 3000. BHA: Bit, Motor, float sub, monel, DC, MWD, SMDC, XO, 27 HWDP, XO, jars, XO, 3 HWDP. Length of BHA = 1020.96'. Wt in mud below jars 37,000#. Position of stabs abv bit: 1'. Slow circ pmp 1: 40-550. Surv: 23.2° (8214.89'TVD), AZM 313.60°, Vert Sect 2600.60', 1787.10N, 1890.22W, Dog Leg .71 @ 8819'; 23.0° (8300.43'TVD), AZM 315.20°, Vert Sect 2637.09', 1812.63N, 1961.29W, Dog Leg .71 @ 8912'. 6 hrs Drlg w/bit #20, mud motor & MWD f/8810-8869'. 1 hr Rmd, surv, conn. 10½ hrs Drlg w/bit #20, mud motor & MWD f/8869-8960'. ½ hr Circ & surv. 5 hrs Pmp pill, POOH w/bit #20. 1 hr Chg bit, wrk BOP's, change MWD, RIH w/bit #21. Co. man on loc - Simpson. DMC \$5,781, CMC \$163,394, DWC \$33,796, CWC \$1,851,955

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

09-26-94: 9,145' - Made 185', Sandstone, MW 9.6, Vis 46, PV 19, YP 15, Gels 4-9, pH 10.0, WL 5.2, Solids 8.0%, Tr Sd, Chl 2800, FC 1/32. Bit #21: MM4459, HP 62A, Noz 3-12, Depth in 8960', Tot footage 185' in 19 hrs, ROP 9.7, Cond IH. WOB 35,000#, RPM 109, Pmp press 1500, Circ rate 343 GPM, AV 178/280. Pmp 1 SPM-Liner 82 x 6 x 12; Pmp 2 SPM-liner 0 x 6 x 10. Max pmp press 3000. BHA: Bit, Motor, float sub, monel, DC, MWD, SMDC, XO, 27 HWDP, XO, jars, XO, 3 HWDP. Length of BHA = 1020.96'. Wt in mud below jars 37,000#. Position of stabs abv bit: 1'. Slow circ pmp 1: 40-550. Surv: 21.2° (8387.52'TVD), AZM 318.90°, Vert Sect 2672.40', 1838.47N, 1940.41W, Dog Leg 2.42 @ 9006'. 3 1/2 hrs RIH w/bit #21 to 8780'; brk circ @ 2460-5500'. 1 hr Rmd f/8780-8960'; 180' to btm. 9 hrs Drlg w/bit #21, mud motor & MWD f/8960-9054'. 1/2 hr Circ, surv, Wsh & rm, conn. 10 hrs Drlg w/bit #21, mud motor & MWD f/9054-9145'; slide 9118-9129'. Co. man on loc - Simpson. DMC \$4,556, CMC \$167,950, DWC \$27,536, CWC \$1,879,491

09-27-94: 9,315' - Made 169', Sandstone, MW 9.6, Vis 48, PV 19, YP 16, Gels 5-10, pH 9.8, WL 4.8, Solids 8.0%, Tr Sd, Chl 2600, FC 1/32. Bit #21: MM4459, HP 62A, Noz 3-12, Depth in 8960', Tot footage 265' in 25 hrs, ROP 10.6, Cond 4-4-I. Bit #22: 566112, S86F, Noz 3-12, Depth in 9225', Tot footage 90' in 7 1/2 hrs, ROP 12.0, Cond IH. WOB 35-40,000#, RPM 115, Pmp press 1500, Circ rate 343 GPM, AV 178/280. Pmp 1 SPM-Liner 82 x 6 x 12; Pmp 2 SPM-liner 0 x 6 x 10. Max pmp press 3000. BHA: Bit, Motor, float sub, monel, DC, MWD, SMDC, XO, 27 HWDP, XO, jars, XO, 3 HWDP. Length of BHA = 1020.96'. Wt in mud below jars 37,000#. Surv: 20.7° (8476.25'TVD), AZM 322.10°, Vert Sect 2706.19', 1864.66N, 2706.19W, Dog Leg 1.31 @ 9101'. 1/2 hr Circ, surv & conn f/9146-9148'. 2 1/2 hrs Drlg w/bit #21 f/9148-9181'; drlg brk 9170-9181'. 1 1/2 hrs Circ f/samples @ 9181'. 3 1/2 hrs Drlg w/bit #21, mud motor & MWD f/9181-9225'. 5 hrs Slug pipe & POH f/bit. 1/2 hr Chg bit & wrk BOP's. 3 1/2 hrs RIH w/bit #22, mud motor & MWD f/9225-9243'. 1/2 hr Rmd, surv & conn. 5 hrs Drlg w/bit #22, motor & MWD f/9243-9315'; slide 9276-9292'. Co. man on loc - Simpson. DMC \$6,067, CMC \$174,018, DWC \$38,580, CWC \$1,918,071

09-28-94: 9,620' - Made 305', Shale, MW 9.6, Vis 47, PV 17, YP 15, Gels 4-9, pH 9.6, WL 5.6, Solids 7.0%, Tr Sd, Chl 2600, FC 1/32. Bit #22: 566112, S86F, Noz 3-12, Depth in 9225', Tot fgt 395' in 29 hrs, ROP 13.6, Cond IH. WOB 40-45,000#, RPM 115, Pmp press 1500, Circ rate 343 GPM, AV 178/280. Pmp 1 SPM-Liner 82 x 6 x 12; Pmp 2 SPM-liner 0 x 6 x 10. Max pmp press 3000. BHA: Bit, Mot, float sub, monel, DC, MWD, SMDC, XO, 27 HWDP, XO, jars, XO, 3 HWDP. Length of BHA = 1020.96'. Wt in mud below jars 33,000#. Slow circ pmp 1: 46-550. Surv: 18.9° (8919'TVD), AZM 320.30°, Vert Sect 2865.21', 1992.43N, 2059.29W, Dog Leg .92 @ 9572'. 2 hrs Drlg w/bit #22, mud motor & MWD f/9315-9338'. 1/2 hr Rm, surv, conn. 5 1/2 hrs Drlg w/bit #22, mud motor, MWD f/9338-9434'. 1/2 hr Rm, surv, conn @ 9434'. 7 hrs Drlg w/bit #22 f/9434-9526'. 1/2 hr Rm, surv, conn. 7 hrs Drlg w/bit #22 f/9526-9620'; slide 9559-9580'. 1/2 hr Rm, surv, conn. 1/2 hr Rig serv. Co. man on loc-Simpson. DMC \$5,602/CMC \$179,621/DWC \$28,582/CWC \$1,946,654

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

09-29-94: 9,690' - Made 70', Shale, MW 9.7, Vis 45, PV 18, YP 12, Gels 3-7, pH 9.5, WL 6.0, Solids 7.0%, Tr Sd, Chl 2600, FC 1/32. Bit #22: 566112, S86F, Noz 3-12, Depth in 9225', Tot footage 465' in 33 hrs, ROP 14, Cond 8-5-l. Bit #23: RR 314754, B-29, SE 1075, Noz 4-10, Depth in 9690'. WOB 40-45,000#, RPM 115, Pmp press 1500, Circ rate 343 GPM, AV 178/280. Pmp 1 SPM-Liner 82 x 6 x 12; Pmp 2 SPM-liner 0 x 6 x 10. Max pmp press 3000. BHA: Bit, stab, LS, FS, NMDC, MWD, short NMDC, XO, XO, 40 jts S135 DP, 27 jts HWDP, XO, jars, XO, 3 jts HWDP. Length of BHA = 2274.30'. Wt in mud below jars 95,000#. Position of stab abv bit: 1'. Slow circ pmp 1: 40-550. Surv: 18.9° (8319'TVD), AZM 320.30°, Vert Sect 2865.21', 1992.43N, 2059.29W, Dog Leg .92 @ 9572'. 4 hrs Drlg w/bit #22, mud motor & MWD f/9620-9677'; slide 9654-9669'. 2½ hrs 6 std short trip, rmd in & out of hole - very tight. 1 hr Drlg w/bit #22, mud motor, MWD f/9677-9690'. Pmpd Turbo Chem. 9½ hrs Slug pipe, POH due to high torque, LD 40 jts DP. 7 hrs PU new mud motor & MWD. PU 4 jts S135, 5" DP & RIH. Rmd key seat f/2600-2750' & 3734-4167'. GIH w/RR #23. Co. man on loc - Simpson. DMC \$5,744, CMC \$185,366, DWC \$29,514, CWC \$1,976,169

09-30-94: 9,700' - Made 10', Shale, MW 9.7, Vis 43, PV 17, YP 10, Gels 3-6, pH 9.5, WL 5.6, Solids 7.0%, Tr Sd, Chl 2600, FC 1/32. Bit #23: RR 314754, B-29, SE 1075, Noz 4-10, Depth in 9690', Tot ftg 10' in 1½ hrs, ROP 6.6. WOB 2-4,000#, RPM 118, Pmp press 2100, Circ rate 343 GPM, AV 178/280. Pmp 1 SPM-Liner 82 x 6 x 12; Pmp 2 SPM-liner 0 x 6 x 10. Max pmp press 3000. BHA: Bit, 3 pt, SMDC, 3 pt, monel DC, stab, MDC, stab, XO, 15 DC, jars, 2 DC, XO, 30 HWDP. Length of BHA = 1541.59'. Wt in mud below jars 80,000#. Position of stabs abv bit: 2', 22', 54', 88'. 1½ hrs RIH w/bit #23 RR, mud motor & MWD. Brk circ @ 7527'. 1 hr Wrkg stuck pipe @ 7527'. 1½ hrs RIH, wshd & rmd tight hole f/8752-8840'. 1 hr RIH to 9550'. 1 hr Wsh & rmd tight hole f/9550-9690'. Would not rotary. ½ hr Slide drlg f/9690-9693'. ½ hr Wrkg tight hole f/9680-9693'; no rotary. 1 hr Slide drlg f/9693-9700'. 3 hrs Back rm & wrk tight hole f/9700-8950'. 6 hrs Pmp Turbo pill & POOH LD mud motor. 4 hrs PU new BHA & RIH to 2572'. 3 hrs Wsh & rm keyseat f/2572-3075'; back rmg. Co. man on loc - Simpson. DMC \$8,522, CMC \$193,888, DWC \$36,745, CWC \$2,012,914

10-01-94: 9,700' - Made 0', Shale, MW 9.7, Vis 47, PV 18, YP 15, Gels 4-9, pH 9.5, Solids 7.0%, Tr Sd, Chl 2600, FC 1/32. Bit #23: RR 314754, SE 1075, Noz 4-10, Depth in 9700', Rn 16 hrs, Cond IH. WOB 3-5,000#, RPM 110, Pmp press 2000, Circ rate 318 GPM, AV 165-259, Pmp 1 SPM-Liner 0 x 6 x 12; Pmp 2 SPM-liner 91 x 6 x 10. Max pmp press 3000. BHA: Bit, 3 pt, SMDC, 3 pt, MDC, MWD, Stab, MDC, Stab, XO, 2 DC, Jars, XO, 30 HWDP. Length of BHA = 1102-2353'. Position of stabs abv bit: 7', 22', 61', 91'. 4 hrs Wshg & rmg out hole f/3075-3979'; back rmd. 5 hrs Pmpd pill & POOH; tight; back rm 3559-3510', 3479-3416', 2947-2940', 2920-2915' & 2900-2880'. 3 hrs MU BHA & RIH to 3908'. 12 hrs Wshg & rmg 3908-6208'; back rm each std. Co. man on loc - Simpson. DMC \$3,706, CMC \$197,595, DWC \$24,298, CWC \$2,037,212

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

10-02-94: 9,700' - Made 0', Shale, MW 9.7, Vis 47, PV 17, YP 14, Gels 3-8, pH 9.5, WL 5.2, Solids 7.0%, Tr Sd, Chl 2600, FC 1/32. Bit #23: RR 314754, SE 1075, Noz 4-11, Depth in 9700', Cond IH. WOB 0-10,000#, RPM 110, Pmp press 2300, Pmp 1 SPM-Liner 0 x 6 x 12; Pmp 2 SPM-liner 0 x 6 x 10. Max pmp press 3000. BHA: Bit, LS, FS, MDC, MWD, MDC, XO, XO 15 DP, 25 HWDP, XO, Jar, XO, 3 HWDP. Length of BHA = 1453'. Position of stabs abv bit: Slick. 1 hr Wshg & rmg 6208-6272'; back rm each std. 1 hr C&C hole @ 6272'; pmp high vis pill. 12 hrs Wshd & rmd 6272-7591'; back rm each std. 6 hrs POH, wrkd & rmd 3400-3200' keyseat, wrk BOP's. 2 hrs LD stabs & PU motor, orient. 2 hrs RIH 402 jts HWDP. Co. man on loc - Simpson. DMC \$5,114, CMC \$202,709, DWC \$25,044, CWC \$2,062,256

10-03-94: 9,724' - Made 24', Shale, MW 9.8, Vis 46, PV 18, YP 12, Gels 3-8, pH 9.5, WL 5.2, Solids 7.0%, Tr Sd, Chl 2600, FC 1/32. Bit #23: RR 314754, SE 1075, Noz 4-11, Depth in 9700', Tot ftg 24' in 7½ hrs, ROP 3.2, Cond IH. WOB 30-40,000#, RPM 104, Pmp press 2000, Circ rate 318 GPM, AV 165-259. Pmp 1 SPM-Liner 0 x 6 x 12; Pmp 2 SPM-liner 91 x 6 x 10. Max pmp press 3000. BHA: Bit, LS, FS, MDC, MWD, MDC, XO, XO 15 DP, 25 HWDP, XO, Jar, XO, 3 HWDP. Length of BHA = 1453'. Surv: 15.50° (9015.12' TVD), AZM 324.80°, Vert Sect 2894.67', 2015.97N, 2077.46W, Dog leg 3.63 @ 9672.63'. Position of stabs abv bit: Slick. 1 hr Slip & cut drlg line. 6½ hrs RIH, rmd tight hole 5365-5925' & 8150-9550'. 1½ hrs Trying to rotate; wshd 210' to btm. 7½ hrs Drlg w/mud motor & MWD; slide 9700-9724'. 4 hrs Pull 42 stds DP, PU 7-7/8" watermelon mill. 1 hr RIH 28 stds; wshg & rmg out keyseat. 2½ hrs Rmg & Wshg 2760-2948'; hole very tight. Stuck @ 2948'; wrkd free. POH up to 2850'; wrkg, wshg & rmg. Pulling until turn pipe. Co. man on loc - Simpson. DMC \$4,675, CMC \$207,384, DWC \$27,402, CWC \$2,089,658

10-04-94: 9,724' - Made 0', Shale, MW 9.7, Vis 52, PV 19, YP 17, Gels 4-10, pH 9.5, WL 5.4, Solids 7.0%, Tr Sd, Chl 2600, FC 1/32. Bit #23: RR 314754, SE 1075, Noz 4-11, Depth in 9700'. Max pmp press 3000. BHA: 1 HWDP, XO, 1 DC, XO, Bumper sub, XO, 16 DC, Jars, 3 DC, XO, 23 HWDP, XO, Jars, XO, 3 HWDP. Length of BHA = 1496.89'. 1 hr Rmg hole w/watermelon mill 2760-2947'. Bit @ 8647'; pipe stuck @ 2947' mill; Bit @ 8647'; wrk free. 2 hrs POOH LD mill up to 5609'; stuck pipe. 9 hrs Wrkg stuck pipe @ 5609'. Jar dn & jar up, spot Turbo Lube pill around DC up to 2300'. Put 5 round right-hand torque - wrk dn & up. Pmpd 1 bbl of Turbo Lube every hr - no success. 4 hrs RU Dialog & rn free pt; free @ 5505'. Rn back off shot 6 stds. Put left-hand torque in wrk dn; backed off. ½ hr RD Dialog. 3 hrs Chain out of hole, SLM out of hole (3' correction) @ 5509'. 2 hrs PU new BHA to fish. 2½ hrs RIH to screw into fish. Co. man on loc - Simpson. DMC \$9,305, CMC \$216,689, DWC \$33,335, CWC \$2,122,993

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

10-05-94: 9,724' - Made 0', Shale, MW 9.6, Vis 62, PV 22, YP 18, Gels 8-20, pH 8.0, WL 5.4, Solids 7.0%, Tr Sd, Chl 2600, FC 1/32. Bit #23: RR 314754, SE 1075, Noz 4-11, Depth in 9700', Tot fgt 24' in 7 1/2 hrs, ROP 3.2, Cond 25%. Bit #24: 642794, M44NGF, Noz 3-13, Depth in 9724', Cond IH. Pmp press 1400, Circ rate 318 GPM, AV 165-259, Pmp 1 SPM-Liner: 91 x 6 x 12, Pmp 2 SPM-Liner 0 x 6 x 12. Max pmp press 3000. BHA: Bit, Motor, FS, Monel DC, HOS, SNMDC, XO, XO, 9 HWDP, XO, Jars, XO, 2 HWDP. Length of BHA = 441'. Wt in mud below jars 33,000#. 1 hr RIH opn ended to 5508'. 1 hr Circ cont hole on TOF; screw into fish @ 5509'; jets plgd. 1 1/2 hrs Jarring dn on fish; pipe free; going dn rotating; pull up & jar on tight spot @ 5609'; could not jar through. Jar dn; wshd to 5640'. 1 hr RU Dialog & shot 3 holes @ 5569' in S-135 1 jt abv DC. 1 hr Wshd dn 90'; rotating; pipe free. 11 hrs Pmpg out of hole w/fish; very tight hole all the way up through keyseat; pulling slowly; LD shot jt & mud motor; wrk BOP's. 2 hrs PU new motor & MWD; tst MWD. 5 1/2 hrs RIH w/bit #24. Pmpd 5500-5700'. Depth @ report time 8332'. Co. man on loc - Simpson. DMC \$200, CMC \$216,889, DWC \$37,372, CWC \$2,160,365

10-06-94: 9,724' - Made 0', Shale, MW 9.6, Vis 47, PV 16, YP 14, Gels 8-14, pH 8.2, WL 5.8, Solids 7.0%, Tr Sd, Chl 2900, FC 1/32. Bit #24: 642794, M44NGF, Noz 3-13, Depth in 9724', Cond IH. Pmp 1 SPM-Liner: 0 x 6 x 12, Pmp 2 SPM-Liner 0 x 6 x 12. Max pmp press 3000. BHA: Bit, Motor, FS, NMDC, HOS, SNMDC, XO, XO, 9 HWDP, XO, Jars, XO, 2 HWDP. Length of BHA = 441'. Wt in mud below jars 33,000#. 3 1/2 hrs Wshd & rmd 8332-8415'. 1/2 hr Repair oil lk on top drive. 4 hrs Wshd & rmd 8415-8714'; watermelon rmr hung up @ 2806' - unable to wrk deeper. 1 hr POOH to LD rmr. 1/2 hr Repair top drive. 1/2 hr Cont POOH & string stuck w/bit @ 5976'. 7 hrs Wrk pipe up & dn; jars not hitting; able to circ w/full returns. 4 hrs RU Dialog & rn free point. Jars stuck @ 5597'. Backed off @ 5565'; RD Dialog. 2 1/2 hrs Chain out of hole. 1/2 hr PU fishing assy & RIH. Co. man on loc - Simpson. DMC \$2,331, CMC \$219,388, DWC \$26,388, CWC \$2,186,753

10-07-94: 9,724' - Made 0', Shale, MW 9.5, Vis 50, PV 17, YP 15, Gels 7-15, pH 9.1, WL 5.0, Solids 7.0%, Tr Sd, Chl 3000, FC 1/32. Bit #24: 642794, M44NGF, Noz 3-13, Depth in 9724', Cond IH. RPM 80, Pmp press 1500, Circ rate 419 GPM, AV 217-342. Pmp 1 SPM-Liner: 0 x 6 x 12, Pmp 2 SPM-Liner 100 x 6 x 12. Max pmp press 3000. BHA: Bit, Bit sub, 9 HWDP, Bumper sub, Fishing jars, 5 HWDP, XO, Jars, XO, 6 HWDP. Length of BHA = 669.10'. Wt in mud below jars 30,000#. 4 1/2 hrs RIH to top of fish @ 5543'; bit @ 5976'. 1/2 hr C&C hole, screw into fish, jar dn, fish free. 2 1/2 hrs Wshd dn 180', pull up to tight spot & wrkd thru @ 5450'. 7 1/2 hrs Chain out of hole w/fish, LD monel DC, MWD & motor. 4 hrs PU new BHA & RIH to 5300'. 2 hrs Rmd f/5300-5700', back rmd. 3 hrs RIH to 8546'. Rmd 8546-9296'. Will rotate when moving pipe, but will stop rotating when stop moving. Co. man on loc - Simpson. DMC \$835, CMC \$220,055, DWC \$38,350, CWC \$2,225,103

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500'MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

10-08-94: 9,740' - Made 0', Shale, MW 9.6, Vis 53, PV 19, YP 17, Gels 8-15, pH 8.0, WL 4.8, Solids 7.0%, Tr Sd, Chl 2900, FC 1/32. Bit #24: 642794, M44NGF, Noz 3-13, Depth in 9724', Wshg & Rmg. Pmp 1 SPM-Liner: 0 x 6 x 12, Pmp 2 SPM-Liner 0 x 6 x 12. Max pmp press 3000. BHA: Bit, Bit sub, 9 HWDP, Bumper sub, Fishing jars, 5 HWDP, XO, Jars, XO, 6 HWDP. Length of BHA = 669.10'. Wt in mud below jars 30,000#. 2 hrs Wshg & rmg to btm f/9296-9724'. 3 1/2 hrs C&C hole @ 9724'; wrkg pipe all time. 2 1/2 hrs SLM out of hole to 8000'. 2 hrs C&C hole; spot Turbo Chem pill f/shoe 2460-4300'. 5 hrs Fin SLM out of hole; made 16' correction to 9740'. 9 hrs RU HSI Log #1: Dual Induction-Sonic-Caliper-GR/SP from 9097-2460'. Co. man on loc - Simpson. DMC \$13,053, CMC \$233,109, DWC \$32,618, CWC \$2,257,721

10-09-94: 9,740' - Made 0', Shale, MW 9.5, Vis 54, PV 20, YP 18, Gels 9-18, pH 8.5, WL 4.6, Solids 7.0%, Tr Sd, Chl 3000, FC 1/32. Bit #24: 642794, M44NGF, Noz 3-13, Depth in 9724', Wshg & Rmg. Pmp press 1500, Circ rate 440 GPM, AV 228-228. Pmp 1 SPM-Liner: 0 x 6 x 12, Pmp 2 SPM-Liner 105 x 6 x 12. Max pmp press 3000. BHA: Bit, Bit sub, 9 HWDP, Bumper sub, Fishing jars, 5 HWDP, XO, Jars, XO, 6 HWDP. Length of BHA = 669.10'. 2 hrs Fin rng log #1. 1 hr RD HSI Loggers. 6 hrs Repair top drive; plug behind torque control. 4 hrs RIH; brk circ @ 2460'; rmd tight hole @ 3728'; brk circ @ 6000'; RIH to 8897'. 3 hrs Wshd & rmd 8897-9366'. 3 hrs C&C hole; spot 107 bbls of Turbo Chem Pill 9366-8166'. 5 hrs POH to log. Co. men on loc - Simpson/Fox. DMC \$5,869, CMC \$238,979, DWC \$21,484, CWC \$2,279,206

10-10-94: 9,740' - Made 0', Shale, MW 9.5, Vis 54, PV 18, YP 16, Gels 8-17, pH 8.0, WL 5.4, Solids 7.0%, Tr Sd, Chl 2800, FC 1/32. Bit #24: 642794, M44NGF, Noz 3-13, Depth in 9724', Circ hole. Pmp press 1400, Circ rate 440 GPM, AV 228-228. Pmp 1 SPM-Liner: 0 x 6 x 12, Pmp 2 SPM-Liner 105 x 6 x 12. Max pmp press 3000. BHA: Bit, Bit sub, 9 HWDP, Bumper sub, Fishing jars, 5 HWDP, XO, Jars, XO, 6 HWDP. Length of BHA = 669.10'. Wt in mud below jars 33,000. 2 hrs POH. 5 1/2 hrs RU HSI f/log #2 (Dip Meter); would not go below 2900'; POH; RD HSI. 2 1/2 hrs RIH; wshd bridge out f/3412-3742'; RIH to 4000'; C&C hole. 1 1/2 hrs POH. 4 hrs RU HSI; attempted log; would not go below 4041'. 7 hrs RIH to cond hole @ 8046'; wshd tight spots @ 3015', 3730' & 4075'; washed thru. 1 1/2 hrs C&C hole @ 8046'. Co. men on loc - Simpson/Fox. DMC \$1,372, CMC \$241,722, DWC \$16,932, CWC \$2,296,138

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

10-11-94: 9,740' - Made 0', Shale, MW 9.5, Vis 50, PV 17, YP 15, Gels 7-17, pH 8.5, WL 5.2, Solids 7.0%, Tr Sd, Chl 2900, FC 1/32. Bit #RR18: JC6584, HP62A, Noz 3-12, Depth in 9740'. Pmp press 1500, Circ rate 366 GPM, AV 190-190. Pmp 1 SPM-Liner: 0 x 6 x 12, Pmp 2 SPM-Liner 105 x 6 x 12. Max pmp press 3000. BHA: Bit, Bit sub, 9 HWDP, Bumper sub, Fishing jars, 5 HWDP, XO, Jars, XO, 6 HWDP. Length of BHA = 669.10'. Wt in mud below jars 33,000. 1 hr C&C hole @ 8046'; spot Turbo Chem pill f/4000-2460'. 3 hrs POH to log; chain out of hole. 11 1/2 hrs RU HSI; Log #2 (Dipmeter) f/8950-2450'; RD HSI. 5 1/2 hrs RIH w/DC & LD same. 1 hr Change bit, PU jars, RIH to shoe @ 2460'. 2 hrs Slip & cut drlg line. Co. men on loc - Simpson/Fox. DMC \$4,626, CMC \$244,978, DWC \$84,891, CWC \$2,381,039

10-12-94: 9,740' - Made 0', Shale, MW 9.7, Vis 51, PV 19, YP 16, Gels 8-19, pH 8.5, WL 5.0, Solids 7.0%, Tr Sd, Chl 2800, FC 1/32. Bit #RR25: JC6584, HP62A, Noz 3-12, Depth in 9740', Cln to btm. Max pmp press 3000. BHA: Bit, Bit sub, 9 HWDP, Bumper sub, Fishing jars, 5 HWDP, XO, Jars, XO, 6 HWDP. Length of BHA = 669.10'. Wt in mud below jars 33,000. 2 1/2 hrs RIH to 8477'. 6 hrs Wshd & rmd 8477-9740' (btm). 3 hrs C&C @ 9740', move pipe all time, spot Turbo Lube pill on btm. 5 hrs Chain out of hole to 4260', spot Turbo Chem @ 4260', pull up to 2450'. 7 1/2 hrs RU laydown machine, LD DP & HWDP. Co. men on loc - Simpson/Fox. DMC \$7,392, CMC \$252,371, DWC \$23,367, CWC \$2,404,398

10-13-94: 9,740' - Made 0', Shale, MW 9.7, Vis 55, PV 19, YP 17, Gels 10-19, pH 8.2, WL 4.8. 5 1/2 hrs Fin LD DP & pull wear bushing. 1 1/2 hrs RU to rn csg. 11 1/2 hrs Rn 7" csg as per detail. Wshd thru bridges @ 3209', 4250' & 5960'. Rot & wshd thru bridge @ 8482' and f/9226-9411'. Unable to wrk any deeper. 3 1/2 hrs C&C mud & hole. 2 hrs RU Halliburton & cmt 1st stage w/20 BFW & 20 bbls of SD-Spacer ahead of 170 sx of Hi-Fill @ 11 ppg. Followed by 320 sx of 50/50 Poz w/0.2% CPR-3, 0.5% Halad-344 & 0.2% HR-5 mixed @ 14 ppg. Displ w/375 BM & got cmt returns to surf. Appears that stage tl came opn during wshg dn the csg or from the wiper plug displ. Will circ out the cmt & prep to cmt planned 2nd stage. Co. men on loc - Simpson/Fox. DMC \$200, CMC \$252,571, DWC \$174,120, CWC \$2,578,518

10-14-94: 9,740' - Made 0', Shale, MW 9.6, Vis 52, PV 15, YP 7, Gels 3/7, pH 10.5, WL 10.8, Solids 6%, Tr sd, Chl 3000, FC 2/32. 1/2 hr Fin circ out cmt to surf. 5 hrs Circ thru DV tl & cond contaminated mud. 2 hrs Halliburton cmt 2nd stage w/20 BFW, 20 bbls of SD Spacer, 210 sx of Hi-Fill @ 11 ppg. Followed by 100 sx of 50-50 Poz w/0.2% CFR-3, 0.5% Halad 344 & 0.2% HR-5 mixed @ 14 ppg. Displ closing bomb w/141.5 BM (10 bbls over calculated displ) & unable to see bomb hit. Held cmt in place w/400#. 4 1/2 hrs WOC, holding press on cmt. ND BOP's, PU & set slips on csg w/150,000#. 2 hrs Bled press f/csg, cmt in place. Cut off 7" csg & LD piece. Final cut csg, NU csg spool & tst to 3200#. 3 hrs NU BOP's, change pipe rams to 3 1/2". 7 hrs Double jack tstd BOP's & chk manifold to 300# low / 5000# high. Annular would not tst, will change out element.

CHRONOLOGICAL WELL REPORT

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7" CASING DETAIL:

Halliburton Down Jet Float Shoe	1.30'
2 jts 7", 26#, L-80, LTC csg	83.05'
Halliburton Float Collar	.90'
128 jts 7", 26#, L80, LTC csg	5624.28'
Multi-Stage Cementer	2.58'
59 jts 7", 26#, L80, LTC csg	2646.60'
26 jts 7", 26#, CF95, LTC csg	<u>1072.65'</u>
Total	9431.36'
Less Cutoff	-40.18'
Plus KB	<u>+ 20.50'</u>
Casing Set @	9411.68'

Co. men on loc - Simpson/Fox. DMC \$3,533, CMC \$260,099, DWC \$75,355, CWC \$2,593,364

10-15-94: 9,740' - Made O', Shale, MW 9.5, Vis 41, PV 12, YP 6, Gels 3/8, pH 10.6, WL 11.4, Solids 6%, Tr sd, Chl 3000, FC 2/32. Bit #25: 636918, M44NF, Noz 3-13, Pmp press 2100, Circ rate 260 GPM, AV 252-368, Pmp 1 SPM-Liner 62 x 6 x 12, Pmp 2 SPM-Liner 0 x 5 x 10, Max pmp press 3500. BHA: Bit, BS, 21 x 4-3/4 DC's, 12 HWDP. Length of BHA: 1002.23'. Wt in mud below jars 50,000. 2 hrs Tstg BOP's & rams to 5000 psi. Hydril would not tst. ½ hr RU pickup machine. 3 hrs PU 4-3/4" DC x 3 ½" DP. Circ @ 1000'. PU 3 ½". 1 hr Wrk on TESCO equip. 2 hrs PU 3 ½" DP, tagged @ 3689'. ½ hr Tst csg to 3000 psi - OK. 2 hrs Drlg cmt plugs - DV @ 3699'. RIH to 3835'. 1 ½ hrs Repair TESCO equip. 1 ½ hrs Pmp pill, POH. 11 hrs Chg rubber in Hydril, wrkg on closing unit, change vlv. Co. men on loc - Simpson/Fox. DMC \$1,482, CMC \$261,582, DWC \$25,387, CWC \$2,618,751

10-16-94: 9,740' - Made O', Shale, MW 9.4, Vis 41, PV 10, YP 7, Gels 3/8, pH 10.6, WL 11.2, Solids 6%, Tr sd, Chl 2800, FC 2/32. Bit #25: 636918, M44NF, Noz 3-13, Depth in @ 9740', cln to btm. 3 hrs Repl rubber in Hydril, set wear bushing, NU bell nip. 3 ½ hrs RIH w/6-1/8" bit, PU 3 ½" DP, tagged @ 4068'. ½ hr C&C mud. 1 hr PU 3 ½", RIH to 6000'. ½ hr C&C mud. 3 hr PU 3 ½", RIH to 9326'. 1 hr Drlg cmt, FC, shoe @ 9411'. ½ hr Wshd to btm @ 9740'. 1 ½ hrs C&C hole, blow dn kelly hose. 4 hrs POH w/bit. 2 hrs PU RTTS & RIH to 3780'. 2 hrs Set RTTS & pmpd dn csg & received returns f/DV tl @ 5000 psi, 3.75 BPM f/30 min. Unset RTTS & circ out 7" csg. 1 ½ hrs Chain out of hole w/RTTS. Co. men on loc - Simpson/Fox. DMC \$3,711, CMC \$265,293, DWC \$40,141, CWC \$2,665,813

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

10-17-94: 9,740' - Made 0', Shale, MW 9.4, Vis 40, PV 10, YP 6, Gels 3/7, pH 10.3, WL 12, Solids 5%, Tr sd, Chl 2800, FC 2/32. ½ hr POH w/RTTS. ½ hr LD RTTS & PU EZSV. 4 ½ hrs RIH w/EZSV & set @ 9285'. 3 ½ hrs Tst DP to 2500 psi, C&C hole, around csg & out DV tl @ 3700'. 1 hr RU Howco, cmt 7" csg w/150 sx .5% CFR, .1% HR5. Displ w/10 BW & 51 bbls of 9.4 ppg mud - cmt 16.4 ppg. 1 hr Pull 2 stds & circ out. 3 hrs POH & PU RTTS. 1 ½ hrs RIH w/RTTS, set @ 3210'. 1 ½ hrs Set RTTS, put 500 psi on back side, sqz w/100 sx w/.3% CFR3, .2% Halad 344 (18 bbls slurry, 16.4 ppg). Displ w/39.5 BW, sqz w/1250 psi, final press 1000 psi, close well in. 6 hrs WOC. 1 hr Bleed press off, unset RTTS, RD Howco tls. Co. men on loc - Simpson/Fox. DMC \$781, CMC \$266,075, DWC \$33,343, CWC \$2,699,158

10-18-94: 9,740' - Made 0', Shale. 2 hrs TOO H w/RTTS. 6 hrs TIH w/bit installing DP protectors to 3650'. 1 hr Wshd thru ratty cmt to 3700'. Attempted to tst DV tl w/500# without success. 3 hrs TIH to 9249' (ordered out pkr & bulk cmt f/sqz). 2 hrs CBU. 3 ½ hrs TOO H w/bit. 2 PU RTTS pkr & RIH to 3215'. 4 ½ hrs WO Halliburton equip (due to weather). RU Halliburton lines & tst same. Co. men on loc - Simpson/Fox. DMC \$900, CMC \$266,975, DWC \$19,047, CWC \$2,714,176

10-19-94: 9,740' - Made 0', Shale, MW 9.5, Vis 49, PV 10, YP 15, Gels 10/17, pH 11.6, WL 18, Solids 5%, Chl 2800, FC 2/32. 3 hrs Set RTTS @ 3500', tst lines to 3000 psi - OK. Mixed & sqzd. Pmpd 15 BW, spot 100 sx (18 bbls slurry @ 16.4 ppg) & close bypass. Sqz @ 1 BPM & 1350 psi. Overdispl w/5 bbls & close in. No sqz. 4 hrs WOC w/100 psi on DP. 1 ½ hrs POH w/RTTS. 1 ½ hrs RIH opn ended w/DP to 3715'. 2 ½ hrs RU Howco, spot 100 sx w/3% CaCl @ 15.6 ppg f/3715-3215'. Pull 7 stds & close BOP's. Pmpd dn DP @ 5 BPM & 1300 psi. Sqz off @ 2025# & SI. Sqzd 17 sx out. 11 ½ hrs WOC w/2000# on system. Co. men on loc - Simpson/Fox. DMC \$340, CMC \$267,315, DWC \$27,195, CWC \$2,741,371

10-20-94: 9,740' - Made 0', Shale, MW 9.1, Vis 45, PV 11, YP 12, Gels 10/16, pH 12, WL 20, Solids 5%, Chl 2400, FC 2/32. Bit #25: SEC M44MF, Noz 3-13, Drl d cmt. BHA: Bit, BS, 21 - 4-3/4" DC's, 12 - 3 ½" HWDP. Length of BHA 1002.23'. 2 hrs WOC. 1 hr Bleed press off DP, RIH & tag cmt @ 3487'. 2 ½ hrs POOH w/opn ended & RIH w/bit - Tag @ 3487'. 3 hrs Drlg cmt f/3487-3990'. RIH to 4021'. ½ hr CBU @ 4021'. 2 ½ hrs TIH to 9249'. ½ hr Drlg cmt 9249-9265'. ½ hr Tst csg to 2200# w/leakoff. Establish rate of 1 BPM & 1600#. ½ hr CBU. 2 ½ hrs TOO H to 3800'. 2 ½ hrs Mix & spot 15 bbl viscous pill w/125 vis f/3800-3400'. 1 ½ hrs Fin POOH. 1 ½ hrs RIH w/opn ended DP to 3715'. 1 hr RU Halliburton, establish rate @ 1 BPM & 2050# w/mud. 2 hrs Mix & spot 100 sx of Class H cmt w/3% CaCl₂ @ 15.6 ppg f/3715-3165'. POOH w/7 stds DP, close rams & rev circ w/40 BM. Sqzd 1 ½ bbls (7 sx) @ 3150#. Rel press several times then re-pressured to 3100#. CP @ rept time holding 3100#. Co. men on loc - Simpson/Fox. DMC \$1,334, CMC \$268,649, DWC \$18,383, CWC \$2,759,854

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

10-21-94: 9,740' - Made O', Shale, MW 9.3, Vis 42, PV 8, YP 10, Gels 5/11, pH 12.1, WL 20.8, Solids 6%. Bit #26: SEC M44NF, Noz 3-13. BHA: Bit, BS, 21 - 4-3/4" DC's, 12 - 3 1/2" HWDP. Length of BHA 1002.23'. 2 hrs WOC w/2275 psi on DP. Bled press back to 500 psi @ 0900 hrs. WOC. 1 1/2 hrs Bled press off, RIH & tagged cmt @ 3386'. 1 1/2 hrs POOH w/opn ended DP. 1 hr RIH w/bit #26. 1 hr Repl grabber on top drive. 1/2 hr RIH to TOC @ 3386'. 6 hrs Drlg cmt f/3386-3733' & 3775-3815'. 1/2 hr Circ btms up. Co. men on loc - Simpson/Fox. DMC \$651, CMC \$269,300, DWC \$26,007, CWC \$2,785,861

10-22-94: 9,740' - Made O', Shale, MW 9.3, Vis 38, PV 9, YP 6, Gels 2/4, pH 12.0, WL 10.6, Solids 6%, Chl 2500, FC 1/32. 1 hr TIH w/bit to 5350'. 1/2 hr Attempt to tst csg to 2250# w/leakoff to 1800# in 15 min. 1 1/2 hrs TIH to 9265'. 1/2 hr Attempt to tst csg to 1550# w/leakoff to 660# in 35 min. 4 hrs TOOH w/bit. 3 1/2 hrs PU RTTS & TIH to 3590'. 8 hrs Tst csg f/3590-8874' every 10 stds to 2250' without leakoff. DV tl tstd OK. Tstd csg below pkr @ 8967' to 2500# without leakoff. Csg lk located f/8874-8967'. 4 1/2 hrs TOOH w/RTTS. 1/2 hr Measure 10 jts of 2-7/8" tailpipe & PU same. Co. man on loc - Fox. DMC \$2,895, CMC \$272,195, DWC \$20,447, CWC \$2,806,308

10-23-94: 9,740' - Made O', Shale, MW 9.3, Vis 40, PV 12, YP 5, Gels 0/3, WL 9, Solids 6%, Chl 2400, FC 1/32. Bit #26: SEC, M44NF, Noz 3-13. BHA: Bit, BS, 21 - 4-3/4" DC's, 12 - 3 1/2" HWDP. Length of BHA 1002.23'. 2 hrs Fin PU 10 jts of 2-7/8" tbg as tailpipe below RTTS. 2 1/2 hrs TIH to 9002'. 1/2 hr C&C mud. 2 hrs Pull end of Tailpipe to 8967' & sptd 50 sx of Type 5-Premium Plus cmt w/.2% CFR-3 & 0.3% Halad-344 @ 15.6 ppg f/8967-8692'. Pld end of tailpipe to 8626' (pkr @ 8311') & rev CBU. Set pkr & pmpd 3/4 bbls (3.5 sx) away @ 4000#. No PIR was attainable. Able to achieve sli press loss only. 8 hrs WOC w/4000# on cmt f/4 hrs. Reduced press to 2250# f/final 4 hrs. 3 hrs Rel press & pkr, slug DP & TOOH. 1 hr LD 2-7/8" tbg. 3 hrs TIH w/bit. Tag cmt @ 8655'. 2 hrs C&C mud. Co. man on loc - Fox. DMC \$955, CMC \$273,149, DWC \$35,638, CWC \$3,841,946

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10-24-94: 9,756' (corrected) - Made (-4'), Shale, MW 9.7, vis 45, PV 17, YP 10, Gels 2/4, pH 12.1, WL 6.6, Solids 6%, tr Sd, Chl 2500, FC 1/32. Bit #26: SEC, M44NF, Noz 3-13, Depth in 9752' (corrected), Tot ftg 4' in 1 hr, ROP 4, Cond 2-E-I. Bit #27: SEC, HZ27-1, Noz 3-16, Depth in 9756', Cond IH. WOB 18-20M, RPM 63, Pmp press 2150, Circ rate 230 GPM, AV 223-327, Pmp 2 SPM-Liner 95 x 6", Max press 3500#. BHA: Bit, BS, 21 - 4-3/4" DC's, 12 - 3 1/2" HWDP. Length of BHA 1002.23'. 5 hrs C&C mud while WOC. 3 1/2 hrs Drlg cmt f/8655-8970', harder cmt f/8685-8715'. Wsh dn to 9265' - TOC. 1/2 hrs Press tst csg to 2250# w/50# leakoff in 30 min. 4 hrs Drl cmt f/9265-9286', drld retainer & cmt to 9410'. Wsh & rm 9410-9752'. Made 12' correction in TD due to retainer being on depth (from 2 separate tallies). 1 hr Drlg 9752-9756'. 1/2 hr Pull bit into csg & tst fm to leakoff of 10.7 ppg w/500# @ 8830'TVD (9478'MD). 3 1/2 hrs Slug DP & TOOH f/log. 4 hrs Rn CBL-GR log f/9450-8700' & 4740-2300'. Had good bond f/9325-9400'. Had indic of cmt abv & below colr @ 8975' but poor bond. Log showed cmt but poor bond f/4700-3720'. Good bond across DV tl f/3720-3690'. Poor bond but cmt present f/3690-2460'. RD HLS. 2 hrs PU directional drlg assy & start in hole. Co. man on loc - Fox. DMC \$4,624, CMC \$277,773, DWC \$22,733, CWC \$2,864,679

10-25-94: 9,924' - Made 168', Shale, MW 9.6, Vis 50, PV 26, YP 10, Gels 2/5, pH 12.1, WL 6.2, Solids 6%, tr Sd, Chl 2300, FC 1/32. Bit #27: SEC, HZ27-1, Noz 3-16, Depth in 9756', Tot ftg 168' in 19 hrs, ROP 8.8, Cond IH. WOB 12-14M, RPM 252, Pmp press 2500, Circ rate 221 GPM, AV 214-213, Pmp 2 SPM-Liner 91 x 5", Max press 3500#. BHA: Bit, BH Motor, FS, XO, HOS, 21 - 4-3/4" DC's, 8 - 3 1/2" HWDP, jars, 4 HWDP. Length of BHA 1082.51'. Surv: 19.7° (8830.28' TVD), AZM 321.30°, Vert Sect 2834.32', 1968.35N, 2039.66W, Dog Leg 0.59 @ 9478'; 15.5° (9014.52' TVD), AZM 324.80°, Vert Sect 2894.49', 2015.82N, 2077.35W, Dog Leg 3.65 @ 9672'; 15.2° (9157.20' TVD), AZM 330.10°, Vert Sect 2932.82', 2048.91N, 2098.52W, Dog Leg 1.02 @ 9820'. 5 hrs Fin PU directional assy & TIH to 9400'. Wsh & rm 9400-9756'. 19 hrs Drlg 9756-9924'. Slide drl f/9863-9890'. Co. man on loc - Fox. DMC \$1,851, CMC \$279,625, DWC \$25,211, CWC \$2,889,890

10-26-94: 10,148' - Made 224', Shale, Hole Size 6-1/8", MW 9.4, Vis 48, PV 21, YP 8, Gels 2/4, pH 12.1, WL 6.2, Solids 5%, tr Sd, Chl 1700, FC 1/32. Bit #27: 31461, SEC, HZ27-1, Noz 3-16, Depth in 9756', Tot ftg 392' in 41 1/2 hrs, ROP 9.4, Cond IH. WOB 10-16M, RPM 20-231, Pmp press 2700, Circ rate 218 GPM, AV 212-357, Pmp 2 SPM-Liner 90 x 5 x 10, Max press 3500#. BHA: Bit, BH Motor, FS, XO, HOS, 21 - 4-3/4" DC's, 8 - 3 1/2" HWDP, jars, 4 HWDP. Length of BHA 1082.51'. Surv: 14.5° (9341.81' TVD), AZM 325.90°, Vert Sect 2980.24', 2091.06N, 2980.24W, Dog Leg 1.31 @ 10,011'. 3 hrs Drlg 9924-9956'. 1 hr Surv, orient & rig serv. 10 hrs Drlg 9956-10,047'. 1/2 hr Surv, conn, orient. 9 1/2 hrs Drlg 10,047-10,148'; slide 10,054-10,078'. Co. man on loc - Fox. DMC \$4,551, CMC \$284,175, DWC \$36,234, CWC \$2,926,124

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10-27-94: 10,270' - Made 122', Shale, Hole Size 6-1/8", MW 9.5, Vis 45, PV 19, YP 8, Gels 1/3, pH 12.1, WL 6.6, Solids 5%, tr Sd, Chl 1500, FC 1/32. Bit #27: 31461, SEC, HZ27-1, Noz 3-16, Depth in 9756', Tot ftg 493' in 53½ hrs, ROP 8.9, Cond 5%. Bit #28: 31681, SE1064, Noz 3-15, Depth in 10,249', Tot ftg 21' in 3½ hrs, ROP 6.2, Cond IH. WOB 2-8M, Pmp press 2700, Circ rate 218 GPM, AV 212-357, Pmp 2 SPM-Liner 90 x 5 x 10, Max press 3500#. BHA: Bit, BH Motor, FS, XO, HOS, 21 - 4-3/4" DC's, 8 - 3½" HWDP, jars, 4 HWDP. Length of BHA 1082.51'. Surv: 13.9° (9524.83' TVD), AZM 317.60°, Vert Sect 3027.00', 2127.92N, 2152.84W, Dog Leg 1.26 @ 10,200'. 12 hrs Drlg 6-1/8" hole w/motor & MWD f/10,148-10,243'. ½ hr Conn - surv. ½ hr Drlg 10,243-10,249'. 4 hrs Slug pipe, POH. 3 hrs Change bit, tst MWD, wrk BOP's, RIH. ½ hr Wshd 95' to btm f/safety - no fill. 3½ hrs Drlg 10,249-10,270'; sliding. Co. man on loc - Fox. DMC \$3,552, CMC \$287,728, DWC \$38,862, CWC \$2,964,987

10-28-94: 10,484' - Made 214', Shale, Hole Size 6-1/8", MW 9.4, Vis 49, PV 24, YP 8, Gels 1/3, pH 12.1, WL 6.0, Solids 5%, tr Sd, Chl 1700, FC 1/32. Bit #28: 31681, SE1064, Noz 3-15, Depth in 10,249', Tot ftg 235' in 25 hrs, ROP 9.4, Cond IH. WOB 5-12M, RPM 45-270, Pmp press 2700, Circ rate 218 GPM, AV 212-357, Pmp 1 SPM-Liner 0 x 5 x 12, Pmp 2 SPM-Liner 90 x 5 x 10, Max press 3500#. BHA: Bit, BH Motor, FS, XO, HOS, 21 - 4-3/4" DC's, 8 - 3½" HWDP, jars, 4 HWDP. Length of BHA 1082.51'. Surv: 13.70° (9707.64' TVD), AZM 318.90°, Vert Sect 3070.81', 2160.55N, 2182.19W, Dog Leg .59 @ 10,388'. 1 hr Sliding-Drlg w/bit #28 10,270-10,276'. 3½ hrs Drlg w/bit #28, mud motor & MWD f/10,276-10,335'. ½ hr Surv & conn. 4½ hrs Sliding-Drlg 10,335-10,356'. 4½ hrs Drlg w/bit #28, mud motor & MWD 10,356-10,425'. ½ hr Surv & conn. 2 hrs Drlg w/bit #28 10,425-10,465'. 6 hrs Sliding-Drlg 10,465-10,484'. 1½ hrs Slug pipe & POH f/mud motor. Co. man on loc - Simpson. DMC \$3,000, CMC \$290,728, DWC \$27,565, CWC \$2,992,552

10-29-94: 10,819' - Made 335', Shale, Hole Size 6-1/8", MW 9.4, Vis 51, PV 24, YP 9, Gels 1/4, pH 12.1, WL 4.2, Solids 5%, tr Sd, Chl 1500, FC 1/32. Bit #28: 31681, SE1064, Noz 3-15, Depth in 10,249', Tot ftg 570' in 39½ hrs, ROP 14.4, Cond IH. WOB 6-18M, RPM 45-240, Pmp press 3100, Circ rate 218 GPM, AV 212-357, Pmp 1 SPM-Liner 0 x 5 x 12, Pmp 2 SPM-Liner 90 x 5 x 10, Max press 3500#. BHA: Bit, 1% BH Motor, FS, MWD, HOS, 21 - 4-3/4" DC's, 8 HWDP, jars, 4 HWDP. Length of BHA 1091.41'. Surv: 12.10° (9891.98' TVD), AZM 318.90°, Vert Sect 3112.31', 2192.62N, 2208.83W, Dog Leg .82 @ 10,577'; 11.40° (9984.99' TVD), AZM 311.40, Vert Sect 3131.61', 2206.33N, 2222.42W, Dog Leg 1.77 @ 10,672'. 2½ hrs Fin POH, LD motor, wrk BOP's. 1 hr PU new motor, tst motor & MWD. 4½ hrs RIH, wshd 45' to btm f/safety. 1 hr Drlg w/bit #28, mud motor, MWD f/10,484-10,537'. ½ hr Surv, conn. 3 hrs Drlg sliding 10,537-10,562'. 3 hrs Drlg w/mud motor & MWD 10,562-10,632'. ½ hr Surv, conn. 1½ hrs Sliding 10,632-10,664'. 1½ hrs Drlg 10,664-10,725'. ½ hr Surv, conn. 1½ hrs Sliding 10,725-10,760'. 2½ hrs Drlg 10,760-10,819'. ½ hr Surv, conn. Co. man on loc - Simpson. DMC \$3,485, CMC \$294,213, DWC \$30,901, CWC \$3,023,453

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10-30-94: 10,884' - Made 65', Lime & Sh, Hole Size 6-1/8", MW 9.4, Vis 46, PV 19, YP 7, Gels 1/3, pH 11.9, WL 4.5, Solids 5%, tr Sd, Chl 1500, FC 1/32. Bit #28: 31681, SE1064, Noz 3-15, Depth in 10,249', Tot ftg 579' in 43 hrs, ROP 13.4, Cond 85%. Bit #29: RR 3146-1, HZ271, Noz 3-15, Depth in 10,828', Tot ftg 56' in 8 hrs, ROP 7.0, Cond IH. WOB 5-15M, RPM 40-231, Pmp press 3100, Circ rate 218 GPM, AV 212-357, Pmp 1 SPM-Liner 0 x 5 x 12, Pmp 2 SPM-Liner 90 x 5 x 10, Max press 3500#. BHA: Bit, 1% BH Motor, FS, MWD, HOS, 21 - 4-3/4" DC's, 8 HWDP, jars, 4 HWDP. Length of BHA 1091.41'. 2 1/2 hrs Drlg 10,819-10,828'. 1 1/2 hrs Circ btms up. 3 1/2 hrs Pmp pill, POH f/bit. 2 hrs Dress MWD, change bit, tst MWD, wrk BOP's. 1 1/2 hrs RIH to 3,400'. 1 hr Slip & cut drlg line. 1/2 hr Serv rig. 4 1/2 hrs RIH, move all rubber on DP. 8 hrs Drlg 6-1/8" hole w/bit #29RR, mud motor & MWD 10,828-10,884'. (25 total hrs due to time change). Co. man on loc - Simpson. DMC \$2,029, CMC \$296,243, DWC \$48,241, CWC \$3,031,695

10-31-94: 10,926' - Made 42', Lime & Dolomite, Hole Size 6-1/8", MW 9.4, Vis 48, PV 20, YP 8, Gels 1/3, pH 12.2, WL 4.4, Solids 5%, tr Sd, Chl 1400, FC 1/32. Bit #29: RR 31461, HZ271, Noz 3-15, Depth in 10,828', Tot ftg 56' in 8 hrs, ROP 7.0, Cond 90%. Bit #30, 640572, M89TF, Noz 3-15, Depth in 10,884', Tot ftg 42' in 11 1/2 hrs, ROP 3.6, Cond IH. WOB 25M, RPM 50, Pmp press 2300, Circ rate 218 GPM, AV 212-357, Pmp 1 SPM-Liner 0 x 5 x 12, Pmp 2 SPM-Liner 90 x 5 x 10, Max press 3500#. BHA: Bit, junk sub, BS, XO, MWD, HOS, 21 - 4-3/4" DC's, 8 HWDP, jars, 4 HWDP. Length of BHA 1064.96'. Wt in mud below jars 28,000. Surv: 10.40° (10,174.45' TVD), AZM 302.70°, Vert Sect 3167.92', 2227.85N, 2252.20W, Dog Leg .79 @ 10,865'. 1/2 hr Drlg to 10,884'. 5 hrs Pmp pill, POH f/bit, LD mud motor, wrk BOP's, PU basket. 5 1/2 hrs Change bit & RIH w/bit #30, tst MWD. 3 1/2 hrs Drlg w/bit #30 10,884-10,892'. 1/2 hr Surv, conn. 8 hrs Drlg w/bit #30 10,892-10,926'. 1 hr Pmp pill & POH f/bit. Co. man on loc - Simpson. DMC \$3,046, CMC \$299,289, DWC \$28,256, CWC \$3,099,951

11-01-94: 10,990' - Made 64', Limestone, Hole Size 6-1/8", MW 9.2, Vis 46, PV 18, YP 8, Gels 1/3, pH 12.2, WL 4.2, Solids 4%, tr Sd, Chl 1300, FC 1/32. Bit #30: RR 640572, M89TF, Noz 3-15, Depth in 10,884', Tot ftg 42' in 11 1/2 hrs, ROP 3.6, Cond 2-3-I. Bit #31, 650338, S86F, Noz 3-14, Depth in 10,926', Tot ftg 64' in 12 1/2 hrs, ROP 5.1, Cond IH. WOB 18-25M, RPM 60, Pmp press 1800, Circ rate 167 GPM, AV 162-274, Pmp 1 SPM-Liner 0 x 5 x 12, Pmp 2 SPM-Liner 90 x 5 x 10, Max press 3500#. BHA: Bit, junk sub, BS, XO, MWD, HOS, 21 - 4-3/4" DC's, 8 HWDP, jars, 4 HWDP. Length of BHA 1064.96'. Wt in mud below jars 28,000. Surv: 10.6° (10,264.91' TVD), AZM 303.00°, Vert Sect 3184.33', 2236.94N, 2266.28W, Dog Leg .23 @ 10,957'. 3 hrs Fin POH f/bit. 1/2 hr Chg bit, cln boot basket, wrk BOP's. 4 hrs RIH w/bit #31, tst MWD. 11 1/2 hrs Drlg w/bit #31 f/10,926-10,984' - losing mud. 1/2 hr Surv, conn. 1 hr Drlg 10,984-10,990' - tot mud loss 387 bbls. 1/2 hr Spot LCM pill on btm. 3 hrs POH f/bit. Co. man on loc - Simpson. DMC \$7,490, CMC \$306,781, DWC \$31,036, CWC \$3,130,988

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11-02-94: 11,024' - Made 34', Limestone, Hole Size 6-1/8", MW 9.2, Vis 43, PV 12, YP 6, Gels 1/2, pH 12.0, WL 4.6, Solids 4%, tr Sd, Chl 1300, FC 1/32. Bit #31, 650338, S86F, Noz 3-14, Depth in 10,926', Tot ftg 64' in 12½ hrs, ROP 5.1, Cond 3-l. Bit #32: 17977, 1037, Noz 3-15, Depth in 10,990', Tot ftg 34' in 12½ hrs, ROP 2.7, WOB 15M, RPM 40-231, Pmp press 1800, Circ rate 213 GPM, AV 207-349, Pmp 1 SPM-Liner 0 x 5 x 12, Pmp 2 SPM-Liner 88 x 5 x 10, Max press 3500#. BHA: Bit, Motor, FS, XO, MWD, 21 - 4-3/4" DC's, 8 HWDP, jars, 4 HWDP. Length of BHA 1090.53'. Wt in mud below jars 28,000. 1 hrs Fin POH w/bit #31. 2½ hrs Cln boot basket, strap motor, P/motor new bit, tst MWD, orient motor. 4½ hrs RIH w/bit #32. 12½ hrs Drlg w/bit #32, dual motor & MWD f/10,990-11,024'. 3½ hrs Chain out of hole f/press loss of 1000 psi. Co. man on loc - Simpson. DMC \$5,046, CMC \$311,827, DWC \$47,467, CWC \$3,178,455

11-03-94: 11,038' - Made 14', Limestone, Hole Size 6-1/8", MW 9.2, Vis 44, PV 13, YP 9, Gels 1-5, pH 12.0, WL 6.8, Solids 5%, tr Sd, Chl 1500, FC 1/32. Bit #32: 17977, SE1037, Noz 3-15, Depth in 10,990', Tot ftg 34' in 12½ hrs, ROP 2.7, Cond 85%. Bit #33: DM7536, EA162A, Noz 3-14, Depth in 11,024', Tot ftg 14' in 2½ hrs, ROP 5.6, Cond IH. WOB 20-25M, RPM 60, Pmp press 1800, Circ rate 192 GPM, AV 186-314, Pmp 1 SPM-Liner 66 x 5 x 12, Pmp 2 SPM-Liner 0 x 5 x 10, Max press 3500#. BHA: Bit, Boot basket, BS, XO, MWD, 21 - 4-3/4" DC's, 8 HWDP, jars, 4 HWDP. Length of BHA 1064.96'. Wt in mud below jars 28,000. 1 hr Fin chain out of hole w/bit #32 for hole. 4 hrs LD motor, PU boot basket & new bit & RIH. ½ hr Check out pmps. 6 hrs POH f/hole in pipe. 2½ hrs Check pmp line. 7 hrs RIH, tst pipe, GIH every 9 stds, found hole under rubber on 75th std. ½ hr Wshd to btm 40', wrk JB. 2½ hrs Drlg w/bit #33 11,024-11,038'. Co. man on loc - Simpson. DMC \$7,520, CMC \$319,347, DWC \$36,430, CWC \$3,214,885

11-04-94: 11,073' - Made 35', Limestone, Hole Size 6-1/8", MW 9.0, Vis 42, PV 11, YP 6, Gels 1-4, pH 12.1, WL 6.8, Solids 5%, tr Sd, Chl 1400, FC 1/32. Bit #33: DM7536, EAP62A, Noz 3-14, Depth in 11,024', Tot ftg 49' in 8 hrs, ROP 6.1, Cond 2-2-l. Bit #34: DM7537, EHP62, Noz 3-15, Depth in 11,073'. WOB 20M, RPM 45, Pmp press 1700, Circ rate 195 GPM, AV 189, Pmp 1 SPM-Liner 67 x 5 x 12, Pmp 2 SPM-Liner 0 x 5 x 10, Max press 3500#. BHA: Bit, motor, FS, XO, MWD, HOS, 8 HWDP, jars, 4 HWDP. Length of BHA 452.31'. 5½ hrs Drlg w/bit #33 11,038-11,073'. 2½ hrs Stuck pipe on btm, wrk free, would not rot. Spot Turbo Chem pill on btm w/LCM. ½ hr POH to std DC back in derrick & PU motor. Plgd bit after 35 stds out. ½ hr Repair elevators. 6 hrs POH wet, btm DC plgd. 1½ hrs PU motor, new bit, tst MWD. 3½ hrs RIH, fill pipe every 30 stds, moved DP rubbers up hole 7 stds. 1½ hrs Slip & cut drlg line. 2½ hrs PU 21 jts of DP, TIH, washing to btm. Co. man on loc - Simpson. DMC \$12,000, CMC \$331,348, DWC \$37,745, CWC \$3,252,632

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11-05-94: 11,161' - Made 88', Limestone, Hole Size 6-1/8", MW 9.0, Vis 42, PV 9, YP 5, Gels 1-4, pH 12.1, WL 6.2, Solids 5%, tr Sd, Chl 1500, FC 1/32. Bit #34: DM7537, EHP62, Noz 3-15, Depth in 11,073', Tot ftg 80' in 12 hrs, ROP 6.6, Cond 2-2-I. Bit #35: DM7539, EHP62, Noz 3-14, Depth in 11,153', Tot ftg 8' in 3 hrs, ROP 2.6, Cond IH. WOB 20M, Pmp press 1800, Circ rate 195 GPM, AV 189-127, Pmp 1 SPM-Liner 67 x 5 x 12, Pmp 2 SPM-Liner 0 x 5 x 10, Max press 3500#. BHA: Bit, BS, SS, XO, MWD, HOS, 8 HWDP, jars, 4 HWDP. Length of BHA 438.87'. Surv: 10° (10,389.93' TVD), AZM 306°, Vert Sect 3206.33', 2249.87N, 2284.45W, Dog Leg .25 @ 11,084'. 12 hrs Drlg w/bit #34, mud motor & MWD f/11,073-11,153'. ½ hr Spot LCM pill on btm, surv. 5 hrs POH f/bit, LD mud motor. 3½ hrs PU shock sub & new bit. RIH, tst MWD, wshd 35' to btm. 3 hrs Drlg w/bit #35 f/11,153-11,161'. Co. man on loc - Simpson. DMC \$4,186, CMC \$335,534, DWC \$30,371, CWC \$3,283,003

11-06-94: 11,256' - Made 95', Sh & Limestone, Hole Size 6-1/8", MW 9.0, Vis 45, PV 17, YP 9, Gels 1-7, pH 12.1, WL 6.8, Solids 4.5%, tr Sd, Chl 1100, FC 1/32. Bit #35: DM7539, EHP62, Noz 3-14, Depth in 11,153', Tot ftg 103' in 25 hrs, ROP 4.1, Cond IH. WOB 25M, RPM 60, Pmp press 2050, Circ rate 211 GPM, AV 204-345, Pmp 1 SPM-Liner 0 x 5 x 12, Pmp 2 SPM-Liner 87 x 5 x 10, Max press 3500#. BHA: Bit, BS, SS, XO, MWD, HOS, 8 HWDP, jars, 4 HWDP. Length of BHA 438.87'. 13 hrs Drlg w/bit #35 f/11,161-11,209'. ½ hr Conn & attempted to surv - no surv. 8½ hrs Drlg w/bit #35 f/11,209-11,256'. ½ hr Spot 50 bbl LCM pill on btm, tried to surv. 1 hr POH f/bit. Co. man on loc - Simpson. DMC \$4,681, CMC \$340,215, DWC \$22,631, CWC \$3,305,634

11-07-94: 11,323' - Made 67', Limestone & Sh, Hole Size 6-1/8", MW 9.0, Vis 50, PV 20, YP 12, Gels 3-8, pH 12.1, WL 6.0, Solids 6%, tr Sd, Chl 1200, FC 1/32. Bit #35: DM7539, EHP62, Noz 3-14, Depth in 11,153', Tot ftg 103' in 25 hrs, ROP 4.1, Cond 2-2-I. Bit #36: 01110394, D363, Noz .450, Depth in 11,256', Tot ftg 67' in 11½ hrs, ROP 6, Cond IH. WOB 8/14M, RPM 50/60, Pmp press 2600, Circ rate 194 GPM, AV 188-318, Pmp 1 SPM-Liner 0 x 5 x 12, Pmp 2 SPM-Liner 0 x 5 x 10, Max press 3500#. BHA: Bit, mud motor, FS, XO, MWD, HOS, 8 HWDP, jars, 4 HWDP. Length of BHA 452.51'. Surv: 9.5° (10,482.58' TVD), AZM 310.20°, Vert Sect 3222.13', 2259.67N, 2296.98W, Dog Leg .92 @ 11,178'; 7.9° (10,574.51' TVD), AZM 309.60°, Vert Sect 3236.15', 2268.70N, 2307.76W, Dog Leg 1.72 @ 11,271'. 4 hrs Fin POH f/bit, LD shock sub. 2½ hrs PU mud motor & bit. Change MWD, RIH w/HWDP, tst MWD. 4 hrs RIH w/bit #36, mud motor & MWD, wshd 110' f/safety. 3½ hrs Drlg w/bit #36, mud motor & MWD f/11,256-11,284'. 1 hr Wrk pipe thru tight spot @ 11,282'. 2½ hrs Drlg f/11,284-11,298'. ½ hr Wrk thru tight spot @ 11,298' (change DP screen). 3½ hrs Drlg f/11,298-11,315'. ½ hr Conn & surv @ 11,271'. 2 hrs Drlg f/11,315-11,323'. Co. man on loc - Simpson & Bennet. DMC \$7,988, CMC \$348,204, DWC \$29,558, CWC \$3,335,192

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

11-08-94: 11,367' - Made 44', Limestone & Sh, Hole Size 6-1/8", MW 9.0, Vis 40, PV 9, YP 6, Gels 0-2, pH 12, WL 6.0, Solids 6%, tr Sd, Chl 700, FC 1/32. Bit #36: 01110394, D363, Noz .450, Depth in 11,256', Tot ftg 83' in 14.5 hrs, ROP 5.7, Cond 5%. Bit #37: 206627, HP53, Noz 3-16, Depth in 11,339', Tot ftg 28' in 6 hrs, ROP 4.6, Cond IH. WOB 20/25M, RPM 60, Pmp press 1600, Circ rate 221 GPM, AV 214-361, Pmp 1 SPM-Liner 0 x 5 x 12, Pmp 2 SPM-Liner 91 x 5 x 10, Max press 3500#. BHA: Bit, BS, SS, 8 HWDP, jars, 4 HWDP. Length of BHA 407.29'. Surv: 7.9° (10,574.51' TVD), AZM 309.6°, Vert Sect 3236.15', 2268.70N, 2307.76W, Dog Leg 1.72 @ 11,271'. 4 hrs Drlg f/11,323-11,339'. 3 hrs Wrk thru tight spot @ 11,329' & 11,309'. 4½ hrs Spot LCM pill & POOH. 1 hr LD MWD & mud motor. 5 hrs TIH (change out 15 DP rubbers & 10 clamps). ½ hr Wsh & rm f/11,200-11,339'. 6 hrs Drlg f/11,339-11,367'. Co. man on loc - Bennett. DMC \$5,367, CMC \$353,571, DWC \$29,437, CWC \$3,364,629

11-09-94: 11,517' - Made 150', Limestone & Sh, Hole Size 6-1/8", MW 9.0, Vis 39, PV 6, YP 6, Gels 0-2, pH 12.2, WL 6.2, Solids 3%, tr Sd, Chl 500, FC 1/32. Bit #37: JC6227, HP53, Noz 3-16, Depth in 11,339', Tot ftg 178' in 30 hrs, ROP 6, Cond IH. WOB 25M, RPM 60, Pmp press 1700, Circ rate 218 GPM, AV 212-357, Pmp 1 SPM-Liner 91 x 5 x 12, Pmp 2 SPM-Liner 0 x 5 x 10, Max press 3500#. BHA: Bit, BS, SS, 8 HWDP, jars, 4 HWDP. Length of BHA 407.29'. Surv: 7.9° (10,574.51' TVD), AZM 309.6°, Vert Sect 3236.15', 2268.70N, 2307.76W, Dog Leg 1.72 @ 11,271'. 24 hrs Drlg f/11,367-11,517'. Co. man on loc - Bennett. DMC \$9,156, CMC \$362,627, DWC \$23,531, CWC \$3,388,160

11-10-94: 11,580' - Made 63', Limestone, Hole Size 6-1/8", MW 9.0, Vis 42, PV 9, YP 9, Gels 2/5, pH 12.2, WL 5.8, Solids 3%, tr Sd, Chl 400, FC 1/32. Bit #37: JC6227, HP53, Noz 3-16, Depth in 11339', Tot ftg 211' in 36½ hrs, ROP 6, Cond 6-4-IH. Bit #38: JC6222, HP53, Noz 3-16, Depth in 11,550', Tot ftg 30'/6 hrs, ROP 5, Cond IH. WOB 25M, RPM 60, Pmp press 1700, Circ rate 221 GPM, AV 214-361, Pmp 1 SPM-Liner 91x5x12, Pmp 2 SPM-Liner 0x5x10, Max press 3500#. BHA: Bit, JB, BS, SS, 8 HWDP, jars, 4 HWDP. Length of BHA 409.95'. Surv: 7.9° (10,574.51' TVD), AZM 309.6°, Vert Sect 3236.15', 2268.70N, 2307.76W, Dog Leg 1.72 @ 11,271'. 6½ hrs Drlg f/11517-11550'. 4 hrs POOH f/bit. 7 hrs PU JB & TIH (move DP rubbers). ½ hr Wrk pipe & load JB. 6 hrs Drlg f/11550-11580'. Co. man on loc-Bennett. DMC \$1,790/CMC \$364,417/DWC \$21,115/CWC \$3,409,272

11-11-94: 11,705' - Made 125', Limestone, Hole Size 6-1/8", MW 9.0, Vis 45, PV 13, YP 9, Gels 2/6, pH 12.2, WL 6.2, Solids 3%, tr Sd, Chl 400, FC 1/32. Bit #38: JC6222, HP53, Noz 3-16, Depth in 11,550', Tot ftg 155' in 30 hrs, ROP 5.1, Cond IH. WOB 25M, RPM 60, Pmp press 1700, Circ rate 218 GPM, AV 212-357, Pmp 1 SPM-Liner 90 x 5 x 12, Pmp 2 SPM-Liner 0 x 5 x 10, Max press 3500#. BHA: Bit, JB, BS, SS, 8 HWDP, jars, 4 HWDP. Length of BHA 409.95'. Surv: 7.9° (10,574.51' TVD), AZM 309.6°, Vert Sect 3236.15', 2268.70N, 2307.76W, Dog Leg 1.72 @ 11,271'. 24 hrs Drlg f/11,580-11,705'. Co. man on loc - Bennett. DMC \$4,066, CMC \$368,483, DWC \$29,741, CWC \$3,439,016

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

11-12-94: 11,768' - Made 63', Limestone-Shale-Sandstone-Anhy, Hole Size 6-1/8", MW 9.0, Vis 43, PV 10, YP 8, Gels 1/4, pH 12.1, WL 6.4, Solids 3%, tr Sd, Chl 300, FC 1/32. Bit #38: JC6222, HP53, Noz 3-16, Depth in 11,550', Tot ftg 187' in 36 1/2 hrs, ROP 5, Cond 5-4-1/16. Bit #39: MM4566, HP53, Noz 3-16, Depth in 11,737', Tot ftg 29' in 8 hrs, ROP 3.6, Cond IH. WOB 25M, RPM 60, Pmp press 1700, Circ rate 218 GPM, AV 212-357, Pmp 1 SPM-Liner 90 x 5 x 12, Pmp 2 SPM-Liner 0 x 5 x 10, Max press 3500#. BHA: Bit, JB, BS, SS, 8 HWDP, jars, 4 HWDP. Length of BHA 409.95'. Surv: 7.9° (10,574.51' TVD), AZM 309.6°, Vert Sect 3236.15', 2268.70N, 2307.76W, Dog Leg 1.72 @ 11,271'. 6 1/2 hrs Drlg f/11,705-11,737'. 1 hr Circ btms up. 4 hrs POOH f/bit. 4 hrs TIH. 1/2 hr Wsh & rm 90' to btm. 8 hrs Drlg f/11,737-11,768'. Co. man on loc - Bennett. DMC \$2,270, CMC \$370,754, DWC \$21,710, CWC \$3,460,723

11-13-94: 11,844' - Made 76', Limestone-Shale-Siltstone, Hole Size 6-1/8", MW 9.0, Vis 40, PV 6, YP 6, Gels 1/3, pH 12.3, WL 6.2, Solids 3%, tr Sd, Chl 300, FC 1/32. Bit #39: MM4566, HP53, Noz 3-16, Depth in 11,737', Tot ftg 107' in 26 hrs, ROP 4.1, Cond 4-2-IH. WOB 25M, RPM 60, Pmp press 1700, Circ rate 218 GPM, AV 212-357, Pmp 1 SPM-Liner 90 x 5 x 12, Pmp 2 SPM-Liner 0 x 5 x 10, Max press 3500#. BHA: Bit, JB, BS, SS, 8 HWDP, jars, 4 HWDP. Length of BHA 409.95'. Surv: 7.9° (10,574.51' TVD), AZM 309.6°, Vert Sect 3236.15', 2268.70N, 2307.76W, Dog Leg 1.72 @ 11,271'. 18 hrs Drlg f/11,768-11,844'. 1 hr Circ samp up. 4 1/2 hrs POOH. 1/2 hr LD 1 HWDP & RU BOP testers. Pld bit f/ROP. Co. man on loc - Bennett. DMC \$3,268, CMC \$374,022, DWC \$19,718, CWC \$3,480,441

11-14-94: 11,844' - Made 0', Hole Size 6-1/8", MW 9.0, Vis 40, PV 6, YP 6, Gels 1/3, pH 12.3, WL 6.2, Solids 3%, tr Sd, Chl 300, FC 1/32. Bit #40: 650343, S86F, Noz 3-15, Depth in 11,844' Surv: 7.9° (10,574.51' TVD), AZM 309.6°, Vert Sect 3236.15', 2268.70N, 2307.76W, Dog Leg 1.72 @ 11,271'. 9 1/2 hrs Fin RU BOP testers & tst BOP's & vlvs to 250# low & 5000# high - OK. Tstd hydril to 250# low & 2500# high - would not tst. RD testers. 1 hr Cut drl line. 10 hrs WO parts f/hydril. 3 1/2 hrs Repair hydril. Co. man on loc - Bennett. DMC \$200, CMC \$374,222, DWC \$19,739, CWC \$3,500,180

11-15-94: 11,883' - Made 39', Sh-Limestone-Siltstone-Sd, Hole Size 6-1/8", MW 9.0, Vis 40, PV 8, YP 6, Gels 1/4, pH 12.3, WL 6.8, Solids 3%, tr Sd, Chl 400, FC 1/32. Bit #40: 650343, S86F, Noz 3-15, Depth in 11,844', Tot ftg 39' in 9 hrs, ROP 4.3, Cond IH. WOB 24/26, RPM 60, Pmp press 1850, Circ rate 218 GPM, AV 212/357, Pmp SPM-Liner 90 x 5 x 12, Max pmp press 3500. BHA: Bit, JB, BS, SS, 8 HWDP, jars, 3 HWDP. Length of BHA 379.8'. Surv: 7.9° (10,574.51' TVD), AZM 309.6°, Vert Sect 3236.15', 2268.70N, 2307.76W, Dog Leg 1.72 @ 11,271'. 2 hrs Fin repair hydril. 1 1/2 hrs RU testers & tst hydril to 250# low, 2500# high. 4 1/2 hrs TIH (having trouble w/top drive). 4 1/2 hrs Repair top drive. 2 1/2 hrs Fin TIH (move DP rubbers), wsh 45' to btm. 9 hrs Drlg f/11,844-11,883'. Co. man on loc - Bennett. DMC \$1,830, CMC \$376,053, DWC \$16,565, CWC \$3,516,745

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

11-16-94: 11,896' - Made 13', Limestone-Sandstone-Sh, Hole Size 6-1/8", MW 9.0, Vis 41, PV 8, YP 7, Gels 1/4, pH 12.2, WL 6.0, Solids 3%, tr Sd, Chl 400, FC 1/32. Bit #40: 650343, S86F, Noz 3-15, Depth in 11,844', Tot ftg 52' in 12 hrs, ROP 4.3, Cond 5-2-IH. Bit #41: 5401111194, D363, Noz .45, Depth in 11,896'. WOB 24/26, RPM 60, Pmp press 1850, Circ rate 218 GPM, AV 212/357, Pmp SPM-Liner 90 x 5 x 12, Max pmp press 3500. BHA: Bit, Mud motor, XO, 8 HWDP, jars, 3 HWDP. Length of BHA 388.35'. ½ hr Drlg f/11,883-11,888'. ½ hr Wrk thru tight place @ 11,888' to 11,838'. ½ hr Drlg f/11,888' to 11,889'. 1 hr Check f/flow & circ btms up @ 11,889'. 2 hrs Drlg f/11,889-11,896'. ½ hr Slug pipe. 5 hrs POOH due to top drive failure. 4 hrs WO Halliburton. 1½ hrs PU RTTS tl & TIH to 2455'. Tst csg to 500 psi f/10 min - OK. 1 hr TIH; hit tight spot @ 2537'. Fin in hole to 3020' & attempt to tst csg. RTTS would not set. 1½ hrs Chain out of hole & LD RTTS tl. 1½ hrs PU new RTTS tl & TIH to 3020'. Tst csg to 500# - OK f/10 min. 1 hr POOH & LD RTTS tl. 3½ hrs PU diamond bit & mud motor. TIH & change out jars. Co. man on loc - Bennett. DMC \$906, CMC \$376,859, DWC \$15,777, CWC \$3,532,522

11-17-94: 11,896' - (0') Limestone-Sandstone-Sh, Hole Size 6-1/8", MW 9.0, Vis 41, PV 8, YP 8, Gels 1/5, pH 12.1, WL 6.4, Solids 3%, tr Sd, Chl 500. Bit #41: 5401111194, D363, Noz .45, Depth in 11,896'. Pmp press 1550. Pmp 2 SPM-Liner 60 x 5 x 12, Max pmp press 3500. BHA: Bit, Mud motor, XO, 8 HWDP, jars, 3 HWDP. Length of BHA 388.35'. 4½ hrs TIH & hit tight spot @ 10,960'. 19½ hrs Wsh & rm, wrk pipe f/10,960-11,893'. Co. man on loc - Bennett. DMC \$4,579, CMC \$381,439, DWC \$19,529, CWC \$3,552,051

11-18-94: 11,926' - (30') Limestone-Sandstone, Hole Size 6-1/8", MW 9.0, Vis 39, PV 8, YP 8, Gels 1/4, pH 12.1, WL 6.4, Solids 3%, tr Sd, Chl 500, FC 1/32. Bit #41: 5401111194, D363, Noz .45, Depth in 11,896', 19½ hrs washing & rmg, Cond 95% worn out. Bit #42: 42KY6673, F5, Noz 3-15, Depth in 11,896', Tot ftg 30' in 10 hrs, ROP 3, Cond IH. WOB 25, RPM 50, Pmp press 1700, Circ rate 265 GPM, AV 257/434, Pmp 1 SPM-Liner 90 x 5 x 12, Max pmp press 3500. BHA: Bit, JB, BS, 8 HWDP, jars, 3 HWDP. Length of BHA 372.17'. 5½ hrs POOH. 4 hrs Repair top drive. 3½ hrs TIH. 1 hr Wsh 97' to btm (no problems). 10 hrs Drlg f/11,896-11,926'. Co. man on loc - Bennett. DMC \$3,054, CMC \$384,493, DWC \$36,104, CWC \$3,607,594

11-19-94: 11,972' - (46') Limestone-Sandstone-Siltstone-Shale, Hole Size 6-1/8", MW 9.0, Vis 42, PV 10, YP 9, Gels 1/5, pH 12.2, WL 6.2, Solids 3%, tr Sd, Chl 600, FC 1/32. Bit #42: KY6673, F5, Noz 3-15, Depth in 11,896', Tot ftg 76' in 31½ hrs, ROP 2.4. WOB 24/26, RPM 50, Pmp press 1750, Circ rate 265 GPM, AV 257/434, Pmp 1 SPM-Liner 91 x 5 x 12, Max pmp press 3500. BHA: Bit, JB, BS, 8 HWDP, jars, 3 HWDP. Length of BHA 372.17'. 21½ hrs Drlg f/11,926-11,972'. 2½ hrs Pmp slug & POOH (due to ROP). Co. man on loc - Bennett. DMC \$2,978, CMC \$387,471, DWC \$18,088, CWC \$3,606,153 (corrected)

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

11-20-94: 12,040' - (68') Limestone-Siltstone-Shale-Anhy, Hole Size 6-1/8", MW 9.0, Vis 42, PV 10, YP 10, Gels 1/6, pH 12.2, WL 5.8, Solids 3%, tr Sd, Chl 600, FC 1/32. Bit #42: KY6673, F5, Noz 3-15, Depth in 11,896', Tot fgt 76' in 31 1/2 hrs, ROP 2.4, Cond 2-2-IH. Bit #43: EH6215, HP53, Noz 3-14, Depth in 11,972', Tot fgt 68' in 15 1/2 hrs, ROP 4.3, Cond IH. WOB 25, RPM 60, Pmp press 1800, Circ rate 265 GPM, AV 257/434, Pmp 1 SPM-Liner 91 x 5 x 12, Max pmp press 3500. BHA: Bit, JB, BS, 8 HWDP, jars, 3 HWDP. Length of BHA 372.17'. 3 hrs Fin POOH. 1 1/2 hrs TIH. 1 hr Repair top drive. 2 1/2 hrs Fin TIH. 1/2 hr Wsh 12' to btm 15 1/2 hrs Drlg f/11,972-12,040'. Co. man on loc - Bennett. DMC \$3,304, CMC \$390,776, DWC \$21,714, CWC \$3,627,867

11-21-94: 12,162' - (122') Limestone-Siltstone-Shale-Anhy, Hole Size 6-1/8", MW 9.0, Vis 42, PV 9, YP 10, Gels 1/6, pH 12.1, WL 5.8, Solids 3%, tr Sd, Chl 600, FC 1/32. Bit #43: EH6215, HP53, Noz 3-14, Depth in 11,972', Tot fgt 190' in 39 1/2 hrs, ROP 4.8, Cond IH. WOB 25, RPM 60, Pmp press 1800, Circ rate 262 GPM, AV 254/429, Pmp 1 SPM-Liner 90 x 5 x 12, Max pmp press 3500. BHA: Bit, JB, BS, 8 HWDP, jars, 3 HWDP. Length of BHA 372.17'. 24 hrs Drlg f/12,040-12,162'. Co. man on loc - Bennett. DMC \$3,852, CMC \$394,628, DWC \$19,057, CWC \$3,646,924

11-22-94: 12,205' - (43') Limestone-Siltstone-Shale-Anhy, Hole Size 6-1/8", MW 9.0, Vis 41, PV 10, YP 8, Gels 1/5, pH 12.2, WL 6.3, Solids 3%, tr Sd, Chl 600, FC 1/32. Bit #43: EH6215, HP53, Noz 3-14, Depth in 11,972', Tot fgt 212' in 44 1/2 hrs, ROP 4.7, Cond 4-2-1/16. Bit #44: IC6263, HP53, Noz 3-14, Depth in 12,184', Tot fgt 21' in 4 1/2 hrs, ROP 4.6, Cond IH. WOB 25, RPM 60, Pmp press 1750, Circ rate 212 GPM, AV 203/298, Pmp 1 SPM-Liner 73 x 5 x 12, Max pmp press 3500. BHA: Bit, JB, BS, Monel, 8 HWDP, jars, 3 HWDP. Length of BHA 402.91'. Surv 11° (11485.93' TVD), AZM 53.7°, Vert Sect 2361.4', 2361.4N, 2285.64E, Dog Leg 1.625 @ 12,190'. 5 hrs Drlg f/12,162-12,184'. 6 hrs POOH f/bit. 1 1/2 hrs PU monel & TIH. 1 hr Chage out wear sub on top drive. 4 hrs Fin TIH. 2 hrs Drlg f/12,184-12,192'. 2 hrs Surv @ 12,190'. 2 1/2 hrs Drlg f/12,192-12,205'. Co. man on loc - Bennett. DMC \$1,421, CMC \$396,049, DWC \$27,524, CWC \$3,674,448

11-23-94: 12,266' - (61') Limestone-Siltstone-Shale-Anhy, Hole Size 6-1/8", MW 9.0, Vis 42, PV 10, YP 7, Gels 1/5, pH 12.2, WL 5.0, Solids 3%, tr Sd, Chl 600, FC 1/32. Bit #44: JC6263, HP53, Noz 3-14, Depth in 12,184', Tot fgt 82' in 24 hrs, ROP 3.4, Cond IH. WOB 25, RPM 60, Pmp press 1800, Circ rate 212 GPM, AV 203/298, Pmp 2 SPM-Liner 90 x 5 x 10, Max pmp press 3500. BHA: Bit, JB, BS, Monel, 8 HWDP, jars, 3 HWDP. Length of BHA 402.91'. Surv: 11° (11485.93' TVD), AZM 53.7°, Vert Sect 2361.4', 2361.4N, 2285.64E, Dog Leg 1.63 @ 12,190'. 1/2 hr Check f/washout. 1/2 hr Drlg f/12,205-12,207'. 2 hrs Trip f/washout (hole in pipe @ 3200'). 1/2 hr LD 1 jt 3 1/2" DP. 1 1/2 hrs TIH. 19 hrs Drlg f/12,207-12,266'. Co. man on loc - Bennett. DMC \$3,672, CMC \$399,721, DWC \$17,872, CWC \$3,692,320

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

11-24-94: 12,378' - (112') Limestone-Shale, Hole Size 6-1/8", MW 9.0, Vis 41, PV 10, YP 7, Gels 1/4, pH 12.2, WL 4.8, Solids 3%, tr Sd, Chl 600, FC 1/32. Bit #44: JC6263, HP53, Noz 3-14, Depth in 12,184', Tot ftg 194' in 47½ hrs, ROP 4.0, Cond IH. WOB 25, RPM 60, Pmp press 1800, Circ rate 218 GPM, AV 212/357, Pmp 2 SPM-Liner 90 x 5 x 10, Max pmp press 3500. BHA: Bit, JB, BS, Monel, 8 HWDP, jars, 3 HWDP. Length of BHA 402.91'. 3½ hrs Drlg 12,266-12,276'. ½ hr Conn & rig serv. 20 hrs Drlg 12,276-12,378'. Co. man on loc - Simpson. DMC \$3,747, CMC \$403,469, DWC \$19,032, CWC \$3,876,955

11-25-94: 12,422' - (44') Limestone-Shale, Hole Size 6-1/8", MW 9.1, Vis 41, PV 9, YP 6, Gels 1/4, pH 12.2, WL 5.2, Solids 4%, tr Sd, Chl 600, FC 1/32. Bit #44: JC6263, HP53, Noz 3-14, Depth in 12,184', Tot ftg 207' in 49½ hrs, ROP 4.1, Cond T8-B6-G1/8. Bit #45: BX1283, EHP51A, Noz 3-14, Depth in 12,391', Tot ftg 31' in 5 hrs, ROP 6.2, Cond IH. WOB 15, RPM 210-210, Pmp press 2100, Circ rate 218 GPM, AV 212/357, Pmp 2 SPM-Liner 90 x 5 x 10, Max pmp press 3500. BHA: Bit, Mud Motor, XO, Monel, 8 HWDP, jars, 3 HWDP. Length of BHA 418.84'. 2 hrs Drlg w/bit #44 f/12,378-12,391'. 1 hr Drpd surv, pmp pill, surv misrun. 5½ hrs SLM out of hole. 2 hrs Wrk on top drive. 1 hr Fin POH w/bit #44; no corr on SLM. 1 hr PU new bit & mud motor - tst motor. 3 hrs RIH to shoe. 1 hr Slip & cut drl line. 1½ hrs RIH. 1 hr Wsh & rmd 93' to btm f/safety. 5 hrs Drlg w/bit #45 & mud motor f/12,391-12,422'. Co. man on loc - Simpson. DMC \$411, CMC \$403,880, DWC \$18,961, CWC \$3,895,916

11-26-94: 12,590' - (168') Limestone-Shale, Hole Size 6-1/8", MW 9.0, Vis 42, PV 11, YP 7, Gels 1/4, pH 12.2, WL 4.6, Solids 3%, tr Sd, Chl 600, FC 1/32. Bit #45: BX1283, EHP51A, Noz 3-14, Depth in 12,391', Tot ftg 199' in 28½ hrs, ROP 6.9, Cond IH. WOB 15, RPM 50-210, Pmp press 2100, Circ rate 218 GPM, AV 212/357, Pmp 2 SPM-Liner 90 x 5 x 10, Max pmp press 3500. BHA: Bit, Mud Motor, XO, Monel, 8 HWDP, jars, 3 HWDP. Length of BHA 418.84'. 8½ hrs Drlg w/bit #45 & mud motor f/12,422-12,480'. ½ hr Rig Serv & conn. 15 hrs Drlg w/bit #45 & mud motor f/12,480-12,590'. Co. man on loc - Simpson. DMC \$6,159, CMC \$410,039, DWC \$28,496, CWC \$3,924,412

11-27-94: 12,609' - (3') Limestone-Chert, Hole Size 6-1/8", MW 9.0, Vis 42, PV 11, YP 7, Gels 1/4, pH 12.2, WL 4.6, Solids 3%, tr Sd, Chl 600, FC 1/32. Bit #45: BX1283, BW5226, EHP51A, Noz 3-14, Depth in 12,391', Tot ftg 215' in 31½ hrs, ROP 6.8, Cond 6-6¼. Bit #46: EHP51A, Noz 3-14, Depth in 12,606', Tot ftg 3' in 2½ hrs, ROP 1.2, Cond 1-8¼. WOB 15, RPM 50-200, Pmp press 2100, Circ rate 218 GPM, AV 212/357, Pmp 2 SPM-Liner 90 x 5 x 10, Max pmp press 3500. BHA: Bit, Mud Motor, XO, Monel, 8 HWDP, jars, 3 HWDP. Length of BHA 418.84'. 3 hrs Drlg w/bit #45 & mud motor f/12,590-12,606'. 1 hr Pmpd pill, drpd surv, misrun. 5½ hrs POH f/bit. 6 hrs Chg bit, wrk BOP's RIH, change 10 rubbers. 1½ hrs Rmd 120' to btm. 2½ hrs Drlg w/bit #46. 4½ hrs POH, bit pitched, LD motor & bit #47 HP53. Co. man on loc - Simpson. DMC \$1,083, CMC \$411,122, DWC \$19,783, CWC \$3,944,195

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

11-28-94: 12,655' - (46') Limestone-Sh, Hole Size 6-1/8", MW 9.1, Vis 45, PV 12, YP 8, Gels 1/5, pH 12.2, WL 5.4, Solids 4%, tr Sd, Chl 600, FC 1/32. Bit #47: JC6293, HP53, Noz 3-14, Depth in 12,609', Tot ftg 46' in 12 hrs, ROP 3.8, Cond IH. WOB 10-25, RPM 60, Pmp press 1900, Circ rate 218 GPM, AV 212/357, Pmp 2 SPM-Liner 90 x 5 x 10, Max pmp press 3500. BHA: Bit, Junk sub, BS, Monel, XO, 8 HWDP, jars, 3 HWDP. Length of BHA 402.91'. 1 hr LD mud motor & chg bit. 5 hrs RIH w/bit #47. 6 hrs Wshd & rmd 12,470-12,609'; very high torque. 12 hrs Drlg w/bit #47 f/12,609-12,655'. Co. man on loc - Simpson. DMC \$6,692, CMC \$417,814, DWC \$25,492, CWC \$3,969,687

11-29-94: 12,770' - (115') Limestone, Hole Size 6-1/8", MW 9.0, Vis 44, PV 10, YP 14, Gels 2/6, pH 12.3, WL 6.0, Solids 3%, tr Sd, Chl 650, FC 1/32. Bit #47: JC6293, HP53, Noz 3-14, Depth in 12,609', Tot ftg 161' in 32½ hrs, ROP 4.9, Cond IH. WOB 25, RPM 60, Pmp press 1950, Circ rate 221 GPM, AV 214/361, Pmp 2 SPM-Liner 91 x 5 x 10, Max pmp press 3500. BHA: Bit, Junk sub, BS, Monel, XO, 8 HWDP, jars, 3 HWDP. Length of BHA 402.91'. 20½ hrs Drlg w/bit #47 f/12,655-12,770'. ½ hr Pmp pill & drop surv. 3 hrs POH w/bit #47. Co. man on loc - Simpson. DMC \$3,834, CMC \$421,748, DWC \$24,950, CWC \$3,994,639

11-30-94: 12,838' - (68') Sandstone, Hole Size 6-1/8", MW 9.0, Vis 45, PV 11, YP 13, Gels 2/6, pH 12.2, WL 5.4, Solids 3%, tr Sd, Chl 650, FC 1/32. Bit #47: JC6293, HP53, Noz 3-14, Depth in 12,609', Tot ftg 161' in 32½ hrs, ROP 4.9, Cond 8-8¼. Bit #48: BW5839, HP53, Noz 3-14, Depth in 12,770', Tot ftg 68' in 15½ hrs, ROP 4.3, Cond IH. WOB 20-25, RPM 60-65, Pmp press 1900, Circ rate 221 GPM, AV 214/361, Pmp 2 SPM-Liner 91 x 5 x 10, Max pmp press 3500. BHA: Bit, Junk sub, BS, Monel, XO, 8 HWDP, jars, 3 HWDP. Length of BHA 402.91'. ½ hr Fin POH w/bit #47. ½ hr Chg bit & wrk BOP's. 4½ hrs RIH w/bit #48 to 12,570'. 3 hrs Wshd & rmd f/12570-12770'; 200' to btm. 15½ hrs Drlg w/bit #48 f/12,770-12,838'. Co. man on loc - Simpson. DMC \$5,057, CMC \$426,705, DWC \$25,782, CWC \$4,020,425

12-01-94: 12,911' - (73') Limestone & Sh, Hole Size 6-1/8", MW 9.0, Vis 42, PV 10, YP 7, Gels 1/3, pH 12.2, WL 6.4, Solids 3%, tr Sd, Chl 600, FC 1/32. Bit #48: BW5839, HP53, Noz 3-14, Depth in 12,770', Tot ftg 129' in 27 hrs, ROP 4.7, Cond 6-8-1/8. Bit #49: DM7538, EHP62, Noz 3-14, Depth in 12,899', Tot ftg 12' in 2 hrs, ROP 6.0, Cond IH. WOB 25, RPM 60-65, Pmp press 1900, Circ rate 221 GPM, AV 214/361, Pmp 2 SPM-Liner 91 x 5 x 10, Max pmp press 3500. BHA: Bit, Junk sub, BS, Monel, XO, 8 HWDP, jars, 3 HWDP. Length of BHA 402.91'. 12 hrs Drlg w/bit #48 f/12,838-12,899'. ½ hr Pmpd pill & drpd surv. 5½ hrs POH w/bit #48. 4 hrs Chgd bit, wrk BOP's & RIH w/bit #49. ½ hr Wshd & rmd 50' to btm. 2 hrs Drlg w/bit #49 f/12,899-12,911'. Co. man on loc - Simpson. DMC \$3,270, CMC \$430,076, DWC \$21,710, CWC \$4,042,236

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

12-02-94: 13,007' - (96') Sandstone, Hole Size 6-1/8", MW 9.0, Vis 42, PV 10, YP 7, Gels 1/3, pH 12.2, WL 6.6, Solids 3%, tr Sd, Chl 600, FC 1/32. Bit #49: DM7538, EHP62, Noz 3-14, Depth in 12,899', Tot ftg 108' in 26 hrs, ROP 4.1, Cond IH. WOB 25, RPM 65, Pmp press 1900, Circ rate 221 GPM, AV 214/361, Pmp 2 SPM-Liner 90 x 5 x 10, Max pmp press 3500. BHA: Bit, Junk sub, BS, Monel, XO, 8 HWDP, jars, 3 HWDP. Length of BHA 402.91'. 24 hrs Drlg w/bit #49 f/12,911-13,007'. Co. man on loc - Simpson. DMC \$3,154, CMC \$433,230, DWC \$17,889, CWC \$4,066,125

12-03-94: 13,053' - (46') Sandstone, Hole Size 6-1/8", MW 9.0, Vis 43, PV 9, YP 8, Gels 1/3, pH 12.2, WL 6.8, Solids 3%, tr Sd, Chl 600, FC 1/32. Bit #49: DM7538, EHP62, Noz 3-14, Depth in 12,899', Tot ftg 140' in 34½ hrs, ROP 4.0, Cond 5-6-1/16. Bit #50: DM7496, EHP62, Noz 3-14, Depth in 13,039', Tot ftg 14' in 4 hrs, ROP 3.5, Cond IH. WOB 25, RPM 65, Pmp press 2000, Circ rate 221 GPM, AV 214/361, Pmp 2 SPM-Liner 91 x 5 x 10, Max pmp press 3500. BHA: Bit, Junk sub, BS, Monel, XO, 8 HWDP, jars, 3 HWDP. Length of BHA 402.91'. 8½ hrs Drlg w/bit #49 f/13,007-13,039'. 5 hrs Pmpd pill & POH f/bit. ½ hr Chg bit, wrk BOP's. 2½ hrs RIH. 1 hr Slip & cut drlg line. 2 hrs Fin RIH. ½ hr Wshd & rmd 90' to btm f/safety. 4 hrs Drlg w/bit #50 f/13,039-13,053'. Co. man on loc - Simpson. DMC \$3,070, CMC \$436,300, DWC \$29,178, CWC \$4,089,303

12-04-94: 13,140' - (87') Sandstone, Hole Size 6-1/8", MW 8.9, Vis 48, PV 16, YP 8, Gels 2/10, pH 12.1, WL 5.6, Solids 3%, tr Sd, Chl 550, FC 1/32. Bit #50: DM7496, EHP62, Noz 3-14, Depth in 13,039', Tot ftg 101' in 28 hrs, ROP 3.6, Cond IH. WOB 25, RPM 65-70, Pmp press 1950, Circ rate 221 GPM, AV 214/361, Pmp 2 SPM-Liner 91 x 5 x 10, Max pmp press 3500. BHA: Bit, Junk sub, BS, Monel, XO, 8 HWDP, jars, 3 HWDP. Length of BHA 402.91'. 24 hrs Drlg w/bit #50 f/13,053-13,140'. Co. man on loc - Simpson. DMC \$3,135, CMC \$439,436, DWC \$17,760, CWC \$4,107,064

12-05-94: 13,215' - (75') Limestone, Hole Size 6-1/8", MW 9.0, Vis 45, PV 13, YP 8, Gels 2/6, pH 12.1, WL 6.4, Solids 3%, tr Sd, Chl 550, FC 1/32. Bit #50: DM7496, EHP62, Noz 3-14, Depth in 13,039', Tot ftg 141' in 35 hrs, ROP 4.0, Cond 5-5-1/8. Bit #51: DM7541, EHP62, Noz 3-14, Depth in 13,180', Tot ftg 35' in 4½ hrs, ROP 7.7, Cond IH. WOB 22-23, RPM 65-70, Pmp press 2000, Circ rate 221 GPM, AV 214/361, Pmp 2 SPM-Liner 91 x 5 x 10, Max pmp press 3500. BHA: Bit, Junk sub, BS, Monel, XO, 8 HWDP, jars, 3 HWDP. Length of BHA 402.91'. 8 hrs Drlg w/bit #50 f/13,140-13,180'. ½ hr Slug pipe. 5 hrs SLM out of hole w/bit #50 - no correction. ½ hr Chg bit & wrk BOP's. 5 hrs RIH w/bit #51 to 13,135'. ½ hr Wshd & rmd to btm 45'. 4½ hrs Drlg w/bit #51 f/13,180-13,215'. Co. man on loc - Simpson. DMC \$2,735, CMC \$442,171, DWC \$22,225, CWC \$4,129,289

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

12-06-94: 13,326' - (111') Limestone, Hole Size 6-1/8". Bit #51: DM7541, EHP62, Noz 3-14, Depth in 13,180', Tot ftg 146' in 21 1/2 hrs, ROP 7.1, Cond IH. WOB 24, RPM 70, Pmp press 1900, Circ rate 221 GPM, AV 214/361, Pmp 2 SPM-Liner 91 x 5 x 10, Max pmp press 3500. BHA: Bit, Junk sub, BS, Monel, XO, 8 HWDP, jars, 3 HWDP. Length of BHA 402.91'. 15 hrs Drlg w/bit #51 f/13,215-13,322', lost 300 BM - very high torque. 1 1/2 hrs Wrkg tight hole, mix pill. 2 1/2 hrs Pmp pill, POOH to rubber, moved rubbers up hole. 2 1/2 hrs RIH. 2 hrs Drlg w/bit #51 f/13,322-13,326'; tight hole. 1/2 hr mill pill to POOH. Co. man on loc - Simpson. DMC \$6,963, CMC \$449,349, DWC \$22,573, CWC \$4,151,862

12-07-94: 13,328' - (2') Limestone, Hole Size 6-1/8", MW 9.0, Vis 48, PV 28, YP 10, Gels 3-8, pH 12.2, WL 4.0, Solids 3%, Tr sd, Chl 500, FC 1.0. Bit: Junk mill, flat, Noz 4-12, Depth in 13,326', Tot ftg 2' in 2 1/2 hrs. BHA: Flat btm mill, 2 boot baskets, Bit sub, Monel, 8 HWDP, Jars, 3 HWDP. Length of BHA 407.93'. 4 1/2 hrs POH, 3 cones gone, cln JB. 4 hrs RIH w/junk mill & 2 JB's. 1 1/2 hrs Wshd & rmd 60' to btm. 2 1/2 hrs Mill on junk f/13,326-13,328', lost circ, 180 bbls. 2 hrs Pull up in csg, fill backside w/49 bbls, 57 BW. 7 1/2 hrs Bld mud vol. 1 hr Fill back side w/50 bbls, press up on DP - plgd. 1 hr POH w/plgd mill. Co. man on loc - Simpson. DMC \$4,843, CMC \$454,191, DWC \$27,016, CWC \$4,179,092

12-08-94: 13,328' - (0') Limestone, Hole Size 6-1/8", MW 9.0, Vis 47, PV 10, YP 10, Gels 2-5, pH 11.8, WL 3.6, Solids 3.6%, Tr sd, Chl 200, FC 1.0, Pmp press 1750. BHA: Jet basket, DP. 3 1/2 hrs POH w/plgd mill. 1 hr Cln LCM out of 3 jts of HWDP & monel DC. Cln boot baskets. 4 hrs RIH opn ended w/DP to btm (13,328'). 3 hrs C&C hole on btm - full returns. 4 hrs POOH. 1 hr PU 6" jet basket & RIH 10 stds. 2 hrs Slip & cut drlg line. 4 hrs Fin RIH to btm w/basket. 1 1/2 hrs Circ, wrkg jet back - cln btm. Dropped ball, fishing f/cones. Co. man on loc - Simpson. DMC \$9,974, CMC \$464,165, DWC \$30,384, CWC \$4,209,447

12-09-94: 13,328' - (0') Limestone, Hole Size 6-1/8", MW 9.0, Vis 55, PV 14, YP 9, Gel 1-7, pH 11.2, WL 3.6, Solids 3%, Tr sd, Chl 250, FC 1.0. Bit: RR#52, 636918, H44NF, Noz open, Depth in 13,328'. BHA: Bit, 2 boot baskets, 8 HWDP, Jar, 3 HWDP. Length of BHA 375.87'. Max pmp press 3500. 7 1/2 hrs Chain out of hole w/jet basket, retrieve 1 cone & 2 small pieces. Brk high chain, POH w/low chain. 3 1/2 hrs Repair high chain. 4 hrs RIH opn ended w/DP. 2 1/2 hrs C&C hole & mud on btm - no mud loss - pmp on btm - very high torque. 5 hrs POH. 1 1/2 hrs PU bit, 2 boot baskets, HWDP, jars & RIH. Co. man on loc - Simpson. DMC \$10,522, CMC \$474,688, DWC \$30,612, CWC \$4,240,059

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

12-10-94: 13,333' - (5') Limestone, Hole Size 6-1/8", MW 9.0, Vis 49, PV 10, YP 8, Gel 1-5, pH 10.4, WL 3.8, Solids 3%, Tr sd, Chl 300, FC 1.0. Bit: RR#52, 636918, M44NF, Noz open, Depth in 13,328', Tot fgt 4' in ½ hr, ROP 8, Cond 6-4-I. Bit #53: DM7540, EHP62, Noz 3-16, Depth in 13,332', Tot fgt 1' in 1 ½ hrs, Cond IH. WOB 15-25, RPM 50, Pmp press 1400, Circ rate 242 GPM, AV 235, Pmp 1 SPM-Liner 5 x 12, Pmp 2 SPM-Liner 100 x 5 x 10. Max pmp press 3500. BHA: Bit, Mud motor, XO, 8 HWDP, Jar, 3 HWDP. Length of BHA 388.19'. 3 ½ hrs RIH w/bit #52 RR to 13,140. 3 hrs Wshd & rmd f/13,140-13,328'; 188' to btm. ½ hr Drlg f/13,328-13,332'; no losses; full circ. 5 hrs Wrk JB, mix & pmp pill, POH. 5 ½ hrs PU mud motor & tst. RIH to 13,202'. 1 hr WshD & rmd 130' to btm f/13,202-13,332'. 1 ½ hrs Drlg w/bit #53 & mud motor f/13,332-13,333'. Motor stalled; would not drill. 4 hrs Pmp pill & POH. Co. man on loc - Simpson. DMC \$4,355, CMC \$439,243, DWC \$30,175, CWC \$4,270,234

12-11-94: 13,400' - (67') Limestone/Dolomite, Hole Size 6-1/8", MW 9.0, Vis 50, PV 15, YP 7, Gel 1-4, pH 9.9, WL 4.6, Solids 3%, Tr sd, Chl 300, FC 1.0. Bit #53: DM7540, EHP62, Noz 3-16, Depth in 13,332', Tot fgt 67' in 8 ½ hrs, ROP 7.8, Cond IH. WOB 20, RPM 65, Pmp press 2100, Circ rate 233 GPM, AV 226, Pmp 1 SPM-Liner 80 x 5 x 12, Pmp 2 SPM-Liner 5 x 10. Max pmp press 3500. BHA: Bit, JB, BS, 8 HWDP, Jars, 3 HWDP. Length of BHA 373.21'. 2 hrs POH, LD mud motor. 2 ½ hrs PU boot bskt & RIH. 1 hr Slip & cut drlg line. 2 hrs RIH to 13,238'. Wshd & rmd f/13,238-13,333'; 95' to btm f/safety. 8 ½ hrs Drlg w/bit #53 f/13,333-13,400'. Lost circ @ 13,389'. Cond to drl partial ret @ 13,392'. 2 hrs Wrk tight hole, spot LCM pill on btm (140 bbls). 1 ½ hrs Pull up to shoe. 3 hrs Bld mud vol; lost approx 550 bbls. 1 ½ hrs RIH; slow to btm. Co. man on loc - Simpson. DMC \$10,458, CMC \$489,500, DWC \$25,193, CWC \$4,295,427

12-12-94: 13,474' - (74') Limestone/Dolomite, Hole Size 6-1/8", MW 8.8, Vis 50, PV 17, YP 11, Gel 2-6, pH 8.7, WL 4.8, Solids 3%, Tr sd, Chl 300, FC 1.0. Bit #53: DM7540, EHP62, Noz 3-16, Depth in 13,332', Tot fgt 142' in 19 ½ hrs, ROP 7.2, Cond IH. WOB 20, RPM 65, Pmp press 1100, Circ rate 160 GPM, AV 155, Pmp 1 SPM-Liner 55 x 5 x 12, Pmp 2 SPM-Liner 5 x 10. Max pmp press 3500. BHA: Bit, JB, BS, 8 HWDP, Jars, 3 HWDP. Length of BHA 373.21'. ½ hr RIH to 13,337'. ½ hr Repair top drive. ½ hr Wshd & rmd f/13,332-13,400'; 68' to btm. 4 hrs Drlg w/bit #53 f/13,400-13,431'; lost circ @ 13,431' (300 bbls). 1 ½ hrs Pmp LCM pill, wrk tight hole & high torque. Regained partial returns. 2 ½ hrs Drlg f/13,431-13,460'; lost circ @ 13,445'. 1 hr POH w/15 stds. 7 ½ hrs Bld mud vol. 1 hr RIH. 1 hr Fill DP, wsh & rmd 30' to btm. 2 hrs Drlg f/13,460-13,467' w/partial ret. 1 hr Wrkg high torque. 1 hr Drlg f/13,467-13,474' w/partial returns. Co. man on loc - Simpson. DMC \$15,477, CMC \$504,976, DWC \$30,212, CWC \$4,325,638

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

12-13-94: 13,505' - (31') Limestone/Dolomite, Hole Size 6-1/8", MW 8.8, Vis 55, PV 17, YP 16, Gels 6-14, pH 9.5, WL 4.6, Solids 3%, Tr sd, Chl 300, FC 1.0. Bit #53: DM7540, EHP62, Noz 3-16, Depth in 13,332', Tot fgt 173' in 23½ hrs, ROP 7.3, Cond 3-4-1/16. WOB 20, RPM 65, Pmp press 1500, Circ rate 194 GPM, AV 188, Pmp 1 SPM-Liner 5 x 12, Pmp 2 SPM-Liner 80 x 5 x 10. Max pmp press 3500. BHA: Bit, JB, BS, 8 HWDP, Jars, 3 HWDP. Length of BHA 373.21'. ½ hr Drlg w/bit #53 f/13,474-13,479'; spot LCM pill on btm. 1 hr Pull 15 stds. 8 hrs Bld mud vol. 1 hr RIH, brk circ, wsh & rmd 50' to btm. 1 hr C&C hole f/logs. 1½ hrs 15 std short trip. 1½ hr C&C hole. 5½ hrs SLM out of hole to log. ½ hr RU. Co. man on loc - Simpson. DMC \$21,312, CMC \$526,288, DWC \$37,972, CWC \$4,363,610

12-14-94: 13,505' - (0') Limestone/Dolomite, Hole Size 6-1/8", MW 8.8, Vis 48, PV 13, YP 11, Gels 3-10, pH 9.7, WL 6.5, Solids 3%, Tr sd, Chl 300, FC 1.0. 3 hrs Rn LSS-HRI; tool failed. 5½ hrs Rn LSS f/13,494-8,800'. 6 hrs Rn HRI-SDL-DSN f/13,488-9,411'. 7 hrs Rn Dipmeter; tool failed; no surv. 2½ hrs Rn Seismic. Co. man on loc - Simpson/Landreth. DMC \$2,931, CMC \$529,220, DWC \$28,506, CWC \$4,392,116

12-15-94: 13,505' - (0') Limestone/Dolomite, Hole Size 6-1/8", MW 8.8, Vis 44, PV 9, YP 8, Gels 2-6, pH 9.2, WL 8.0, Solids 3%, Tr sd, Chl 300, FC 1.0. 8½ hrs Rn Downhole Seismic "tool #2". 9 hrs Rn Seismic; rerun tool #1. 1 hr RD Howco Seismic. 2½ hrs WO swivel f/dipmeter. 1 hr Tst tl. 2 hrs Rn EMI Dipmeter @ 13,449'. Co. man on loc - Simpson/Landreth. DMC \$2,861, CMC \$532,082, DWC \$68,304, CWC \$4,460,420

12-16-94: 13,505' - (0') Limestone/Dolomite, Hole Size 6-1/8", MW 8.8, Vis 58, PV 18, YP 17, Gels 8-20, pH 8.4, WL 7.2, Solids 3%, Tr sd, Chl 300, FC 1.0. Bit #54, DM7425, EHP62, Noz 3-16, Depth in 13,505', Cond IH. BHA: Bit, BS, 8 HWDP, jars, 3 HWDP. Length of BHA 371.05'. 12 Rn logs #7 & #8, EMI Dipmeter, f/9420-13,449'. 1 hr RD HSI. 6½ hrs Pull wear bushing & tst BOP's. Tst rams, manifold, floor vlvs & kill lines to 5000 psi high & 250 psi low - OK. Tst annular to 2550 psi high & 250 psi low - OK. 3½ hrs PU new drlg jars & bit & RIH to shoe @ 9400'. 1 hr Displ wtr in hole w/mud @ 9400'. Co. man on loc - Simpson/Landreth. DMC \$5,974, CMC \$538,056, DWC \$71,720, CWC \$4,532,141

12-17-94: 13,605' - (100') Ls/Dolo, Hole Size 6½", MW 8.8, Vis 57, PV 20, YP 14, Gels 3-12, pH 8.7, WL 6.8, Sol 3%, Sd .25%, Chl 300, FC 1.0. Bit #54, DM7425, EHP62, Noz 3-16, Depth in 13,505', Tot fgt 100'/13½ hrs, ROP 7.4, Cond IH. WOB 20, RPM 65, Pmp press 1800, Circ rate 221, AV 214-361. Pmp 2 SPM Liner 91x5 x10, Max pmp press 3500. BHA: Bit, BS, 8 HWDP, jars, 3 HWDP. Length of BHA 371.05'. 3½ hrs RIH w/bit #54, brk circ 9400-10400' & 11400-12000'. ½ hr Wshd & rmd 75' f/13430-13505' to btm. 2½ hrs Drlg w/bit #54 f/13505-13521'. ½ hr Rep top drive. 3½ hrs Drlg w/bit #54 f/13521-13555'; twisted off. 4½ hrs POH, PU OS, RIH. PU fish @ 2880', chain out w/fish. LD OS 1½' abv pin. 1½ hrs RIH w/bit #54, wshd 30' to btm. 7½ hrs Drlg w/bit #54 f/13555-13605'. Co. men on loc-Simpson/Acker. DMC \$9,154, CMC \$547,210, DWC \$23,650, CWC \$4,555,791

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

12-18-94: 13,760' - (155') Limestone/Dolomite, Hole Size 6-1/8", MW 8.8, Vis 52, PV 20, YP 10, Gels 2/8, pH 8.8, WL 6.0, Solids 3%, Tr Sd, Chl 340, FC 1.0, Barite on board 224. Bit #54, DM7425, EHP62, Noz 3-16, Depth in 13,505', Tot ftg 255' in 30½ hrs, ROP 8.4, Cond IH. WOB 20, RPM 65, Pmp press 1900, Circ rate 221, AV 214-362. Pmp 2 SPM Liner 92 x 5½ x 12, Max pmp press 3500. BHA: Bit, BS, 8 HWDP, jars, 3 HWDP. Length of BHA 371.05'. Avg BGG 9, Max BGU 9, Conn gas 12, Short trip gas 34. 1 hr Drl 13605-13612', twist off, lost 130,000#. 1½ hrs POOH 30 stds & single, twist off 4" abv pin. 2 hrs PU OS, dressed w/4-3/4" spiral grapples & pack off. GIH. 2 hrs Circ over TOF, latch onto fish, PU off btm, 20,000# overpull. Circ thru fish, POOH w/chain. 1 hr Brk dn OS, LD same, LD fish, GIH. 16 hrs Drl 13610-13760'. ½ hr Circ btms up f/bit trip. Co. men on loc - Acker. DMC \$6,510, CMC \$553,770, DWC \$22,088, CWC \$4,577,879

12-19-94: 13,836' - (76') Limestone/Dolomite/Chert, Hole Size 6-1/8", MW 8.75, Vis 58, PV 24, YP 14, Gels 3/10, pH 9.1, WL 6.0, Solids 3%, Tr Sd, Chl 300, FC 1.0, Barite on board 215. Bit #54, DM7425, EHP62, Noz 3-16, Depth in 13,505', Tot ftg 255' in 30½ hrs, ROP 8.4, Cond 5-5-1/16. Bit #55, DM7427, EHP62, Noz 3-16, Depth in 13760', Tot ftg 76' in 11½ hrs, ROP 6.6, Cond IH. WOB 22, RPM 65, Pmp press 1900, Circ rate 216, AV 209-353. Pmp 2 SPM Liner 89 x 5½ x 12, Max pmp press 3500. BHA: Bit, BS, 8 HWDP, jars, 3 HWDP. Length of BHA 371.05'. Avg BGG 2, Max BGU 8, Conn gas 0, Trip gas 13. 1 hr Cont circ btms up f/bit trip. 5 hrs Slug pipe, POOH. Max drag 20,000# overpull off btm. 6 hrs Chg bits, GIH, Brk circ & shoe, move rubbers up 3 stds to 13,725'. ½ hr Wsh & rm 45' f/13725-13760'. 11½ hrs Drl 13760-13836'. Co. men on loc - Acker. DMC \$3,668, CMC \$557,437, DWC \$22,453, CWC \$4,600,332

12-20-94: 13,971' - (135') Limestone/Dolomite/Sh, Hole Size 6-1/8", MW 8.8, Vis 54, PV 21, YP 13, Gels 3/9, pH 9.2, WL 6.4, Solids 3%, Tr Sd, Chl 300, FC 1.0, Barite on board 215. Bit #55, DM7427, EHP62, Noz 3-16, Depth in 13760', Tot ftg 211' in 35 hrs, ROP 6, Cond IH. WOB 20/22, RPM 65, Pmp press 1900, Circ rate 221, AV 214-361. Pmp 1 SPM Liner 91 x 5½ x 12, Max pmp press 3500. BHA: Bit, BS, 8 HWDP, jars, 3 HWDP. Length of BHA 371.05'. Slow circ pmp 1: 40 SPM @ 475 psi; Slow circ pmp 2: 40 SPM @ 300 psi. Avg BGG 4, Max BGU 6, Conn gas 7. 13 hrs Drl 13,836-13,905'. ½ hr Rig serv. 10½ hrs Drlg 13905-13,971'. Co. man on loc - Acker. DMC \$3,788, CMC \$561,225, DWC \$25,036, CWC \$4,625,368

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

12-21-94: 14,029' - (58') Ls/Dolo/Sh, Hole Size 6-1/8", MW 8.8, Vis 50, PV 20, YP 7, Gels 2/5, pH 8.0, WL 6.8, Solids 4%, Tr Sd, Chl 300, FC 1.0, Barite on board 347. Bit #55, DM7427, EHP62, Noz 3-16, Depth in 13760', Tot fgt 226'/38 hrs, ROP 5.9, Cond 6-5-1/16. Bit #56, M89TF, Noz 3-16, Depth in 13986', Tot fgt 43'/8.5 hrs, ROP 5.0, Cond IH. WOB 20, RPM 65, Pmp press 1900, Circ rate 221, AV 214-361. Pmp 1 SPM Liner 76x5 1/2 x 12, Max pmp press 3500. BHA: Bit, BS, monel, 8 HWDP, jars, 3 HWDP. Length of BHA 401.95'. Slow circ pmp 1-30 SPM @ 250 psi & 50 SPM @ 800 psi; Slow circ pmp 2-30 SPM @ 100 psi & 50 SPM @ 450 psi. Avg BGG 4, Max BGU 4, Trip gas 15. 3 hrs Drl 13,971-13,986'. 5 1/2 hrs Slug pipe, POOH. 1 hr Chg bit, PU monel DC, wrk blind rams. 1/2 hr TIH w/BHA & 5 stds DP, chng corr rings. 2 hrs SC DL. 3 hrs Cont in hole, move rubbers up 2 stds to 13,936'. 1/2 hr Wsh & rm 50' to btm f/13,936-13,986'. 8 1/2 hrs Drlg 13,986-14,029'. Co. man on loc - Acker. DMC \$3,815, CMC \$565,040, DWC \$21,949, CWC \$4,647,317

12-22-94: 14,109' - (80') Ls/Sh/Sandstone, Hole Size 6-1/8", MW 8.8, Vis 57, PV 24, YP 14, Gels 4/8, pH 9.8, WL 6.0, Solids 4%, Tr Sd, Chl 300, FC 1, Barite on board 427. Bit #56, M89TF, Noz 3-16, Depth in 13986', Tot fgt 123' in 26.5 hrs, ROP 4.6, Cond IH. WOB 20, RPM 65, Pmp press 2000, Circ rate 218, AV 212-357. Pmp 1 SPM Liner 91 x 5 1/2 x 12, Max pmp press 3500. BHA: Bit, BS, monel, 8 HWDP, jars, 3 HWDP. Length of BHA 401.95'. Slow circ pmp 1-30 SPM @ 250 psi & 50 SPM @ 800 psi; Slow circ pmp 2-30 SPM @ 100 psi & 50 SPM @ 450 psi. Avg BGG 3, Max BGU 6, Trip gas 18. 10 1/2 hrs Drl 14029-14078'; twist off. 1 hr POOH, middle jt - 30th std 8" below box. 1 1/2 hrs PU OS, dressed w/3 1/2" basket grapple & control guide. 1/2 hr Latch onto fish. 1 1/2 hrs POOH w/chain, 10,000# overpull coming off btm. 1 hr LD fish, LD OS & GIH. 1/4 hr W&R 30'. 7 1/2 hrs Drl 14078-14109'. Co. man on loc - Acker. DMC \$8,517, CMC \$573,557, DWC \$30,998, CWC \$4,678,315

12-23-94: 14,152' - (43') Ls/Sh/Sandstone/Anhy, Hole Size 6-1/8", MW 8.8, Vis 51, PV 15, YP 10, Gels 2/6, pH 9.1, WL 6.0, Solids 4%, Tr Sd, Chl 300, FC 1, Barite on board 427. Bit #56, 644484, M89TF, Noz 3-16, Depth in 13986', Tot fgt 166' in 33.5 hrs, ROP 4.9. WOB 20, RPM 65, Pmp press 1900, Circ rate 218, AV 212-357. Pmp 1 SPM Liner 90 x 5 1/2 x 12, Max pmp press 3500. BHA: Bit, BS, monel, 8 HWDP, jars, 3 HWDP. Length of BHA 401.95'. Slow circ pmp 1: 30 SPM @ 250 psi & 50 SPM @ 800 psi; Slow circ pmp 2: 30 SPM @ 100 psi & 50 SPM @ 550 psi. Avg BGG 3, Max BGU 3, 3 hrs Drl 14109-14128'; drlg brk (2') f/14118-14120'. Drl 14117-14118' - 9 MPF; Drl 14118-19 - 2 MPF; flow check - no flw. Drl 14119-20' - 6 MPF. Drl 14120-21' - 10 MPF. 1 1/2 hrs Rig serv, change saver sub, top drive. 4 hrs Drl 14128-14152'; twist off, 4" nip rotary hose to goose neck stripped threads, nip, & goose neck. 1 1/2 hrs POOH, fish, pin end top jt, 31st std (2892.61'). 1 1/2 hrs WO OS, pull goose neck while waiting. 2 hrs PU OS, dressed w/4-3/4" spiral grapple, control & packoff. 1/2 hr Latch onto fish, pld off @ string wt of 200,000#. Rot dn over fish slowly. Set dn 40,000#, pld 250,000#, slipped off. 2 1/2 hrs Checked crown & blocks; guard on driller's side popped out & bent. Removed guard. 1 hr POOH w/chain. 6 1/2 hrs WO fish tls. Co. man on loc - Acker. DMC \$6,663, CMC \$580,220, DWC \$28,793, CWC \$4,707,108

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

12-24-94: 14,159' (CORRECTED) - (0') Limestone/Sandstone, Hole Size 6-1/8", MW 8.8, Vis 48, PV 15, YP 10, Gels 2/5, pH 9.2, WL 6.2, Solids 4%, Sd .13, Chl 300, FC 1, Barite on board 367. Bit #56, 644484, M89TF, Noz 3-16, Depth in 13986', Tot ftg 166' in 33.5 hrs. Bit #57, 640586, M89TF, Noz 3-16, Depth in 14,159', WOB - Fishing, Pmp press 2200, Circ rate 206, AV 200-338. Pmp 1 SPM Liner 91 x 5 1/2 x 12, Max pmp press 3500. BHA: Bit, Junk Sub, Bit Sub, 8 HWDP, jars, 3 HWDP. Length of BHA 374.91'. Avg BGG 4, Max BGU 4, Trip gas 32. 1 1/2 hrs WO fishing tjs, LD 12 jts 3 1/2", 13.30, S135 & PU 12 jts 3 1/2" 15.50, S135. 1 hr PU 6-1/8" Bowen OS w/2' extension, lock pins, control guide & Bowen OJ's. 1 hr GIH, latch onto fish. 1 hr Bleeding fishing jars & drlg jars opn. 2 1/2 hrs Pld 75,000# over string wt (275,000). Pipe moving. For 13 stds had 65,000-70,000# drag, std #14 had 50,000# drag & decr rest of the way out of the hole. 1 hr Rel OS, LD fish, LD 2 jts under fish. Tot jts changed out = 15 in the area between 2511-2883'. NOTE: Bowel on this OS swelled. 3 1/2 hrs. Instl goose neck & kelly hose. 1 hr GIH. 1 1/2 hrs Circ btms up; max gas 32 units. 8 1/2 hrs Drop ESS multishot survey, SLM out of hole, taking multishot. Sperry Sun surv f/TD to shoe (14,159-9,400'), 5.41' correction on pipe strap (14,154'): corrected to 14,159'. Bit plgd 60 stds out of hole. Metal & LCM on barrel plate. LD monel DC. 1 1/2 hrs PU new bit & junk sub & GIH. Co. man on loc - Acker. DMC \$981, CMC \$581,201, DWC \$25,356, CWC \$4,732,464

12-25-94: 14,234' - (75') Sandstone/LS/Sh, Hole Size 6-1/8", MW 8.8, Vis 72, PV 31, YP 14, Gels 4/14, pH 10.5, WL 7.0, Solids 4%, Sd .13, Chl 300, FC 1, Barite on board 427. Bit #57, 640586, M89TF, Noz 3-16, Depth in 14,159', Tot ftg 75' in 17.5 hrs, ROP 4.2, Cond IH. WOB 20/22, RPM 65, Pmp press 1900, Circ rate 218, AV 212-357. Pmp 2 SPM Liner 90 x 5 1/2 x 12, Max pmp press 3500. BHA: Bit, Junk Sub, Bit Sub, 8 HWDP, jars, 3 HWDP. Length of BHA 374.91'. Slow Circ Pmp 1 - 30 SPM @ 300 psi & 50 SPM @ 800 psi. Slow Circ Pmp 2 - 30 SPM @ 200 psi & 50 SPM @ 675 psi. Avg BGG 4, Max BGU 4, Conn gas 11. 3 1/2 hrs GIH to 14,133'. 1/2 hr Wsh & rm 36', wrk JB. 12 hrs Drl 14,159-14,213'. 2 1/2 hrs Rep top drive. 5 1/2 hrs Drl 14,231-14,234'. Co. man on loc - Acker. DMC \$2,229, CMC \$583,431, DWC \$20,976, CWC \$4,753,440

12-26-94: 14,298' - (64') Sandstone/Dolo/Sh, Hole Size 6-1/8", MW 8.8, Vis 52, PV 22, YP 15, Gels 2/7, pH 9.5, WL 7.0, Solids 5%, Sd .13, Chl 300, FC 1, Barite on board 397. Bit #57, 640586, M89TF, Noz 3-16, Depth in 14,159', Tot ftg 137' in 32.5 hrs, ROP 4.2, Cond 6-5-1/16. Bit #58, 649082, M89TF, Noz 3-16, Depth in 14,296', Tot ftg 2' in 1/2 hr, ROP 4.0, Cond IH. WOB 22, RPM 65, Pmp press 1900, Circ rate 218, AV 212-357. Pmp 2 SPM Liner 91 x 5 1/2 x 12, Max pmp press 3500. BHA: Bit, Junk Sub, Bit Sub, 8 HWDP, jars, 3 HWDP. Length of BHA 374.91'. Slow Circ Pmp 1 - 30 SPM @ 300 psi & 50 SPM @ 800 psi. Slow Circ Pmp 2 - 30 SPM @ 200 psi & 50 SPM @ 655 psi. Avg BGG 5, Max BGU 6. 15 hrs Drl 14,234-14,296'. 4 hrs Slug pipe, POOH, no drag. 1/2 hr Chg bits, cln JB, cln sand trap. 3 1/2 hrs TIH w/bit #58 to 14,236'. 1/2 hr W&R 60' f/14,236-14,296'. 1/2 hr Drl 14,296-14,298'. Co. man on loc - Acker. DMC \$2,348, CMC \$585,779, DWC \$20,423, CWC \$4,773,863

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

12-27-94: 14,410' - (112') Sandstone/Dolo/Sh, Hole Size 6-1/8", MW 8.8, Vis 60, PV 24, YP 19, Gels 6/20, pH 11.1, WL 7.0, Solids 4%, Sd .25, Chl 300, FC 1, Barite on board 427. Bit #58, 649082, M89TF, Noz 3-16, Depth in 14,296', Tot ftg 114' in 24 hrs, ROP 4.7, Cond IH. WOB 20/22, RPM 65, Pmp press 2100, Circ rate 218, AV 212-387. Pmp 1 SPM Liner 91 x 5 1/2 x 12, Max pmp press 3500. BHA: Bit, Junk Sub, Bit Sub, 8 HWDP, jars, 3 HWDP. Length of BHA 374.91'. Slow Circ Pmp 1 - 40 SPM @ 400 psi. Slow Circ Pmp 2 - 40 SPM @ 500 psi. Avg BGG 15, Max BGU 18. 17 hrs Drl 14,298-14,376'; H₂S alarm went off. 1/2 hr Toolpusher & Mud engineer masked up, checked f/H₂S w/portable detectors & pH meter (no H₂S, no gas). Added 1/4#/bbl H₂S scavenger as precaution. 6 1/2 hrs Drl 14,376-14,410' w/H₂S alarm crippled. Co. man on loc - Acker. DMC \$2,689, CMC \$588,468, DWC \$25,789, CWC \$4,789,651

12-28-94: 14,475' - (65') Sandstone/Dolo, Hole Size 6-1/8", MW 8.8, Vis 66, PV 23, YP 22, Gels 6/22, pH 10.0, WL 6.4, Solids 4%, Sd .25, Chl 300, FC 1, Barite on board 402. Bit #58, 649082, M89TF, Noz 3-16, Depth in 14,269', Tot ftg 187' in 35 hrs, ROP 5.3, Cond 6-4-1/8. Bit #59, 649077, M89TF, Noz 3-16, Depth in 14,456', Tot ftg 19' in 3 1/2 hrs, ROP 5.4, Cond IH. WOB 20/22, RPM 65, Pmp press 2100, Circ rate 218, AV 212-359. Pmp 1 SPM Liner 91 x 5 1/2 x 12, Max pmp press 3500. BHA: Bit, Junk Sub, Bit Sub, 8 HWDP, jars, 3 HWDP. Length of BHA 374.91'. Slow Circ Pmp 1 - 40 SPM @ 500 psi. Slow Circ Pmp 2 - 40 SPM @ 400 psi. Avg BGG 6, Max BGU 22, Trip Gas 17. 11 hrs Drl 14,410-14,456'. At 14,440-14,441' drld 5 MPF. Flw check - no flow. At 14,442' drld 15 MPF. From 14,453-14,455' brk 3 MPF. Flw check - no flow. Drlg back @ 15 MPF. 4 hrs POOH f/bit. 1/2 hr Chg bits, cln JB, cln sd trap. 1/2 hr GIH w/BHA & 10 stds DP. 1 hr CDL. 3 hr Fin TIH w/bit #59 to 14,406'. 1/2 hr Wsh & rm 50' f/14,406-14,456' f/safety, no fill. 3 1/2 hrs Drl 14,456-14,475'. Co. man on loc - Acker. DMC \$2,137, CMC \$590,605, DWC \$28,263, CWC \$4,817,914

12-29-94: 14,600' - (125') Sandstone/Dolo, Hole Size 6-1/8", MW 8.9, Vis 64, PV 23, YP 24, Gels 8/22, pH 11.3, WL 6.4, Solids 3%, Sd .13, Chl 300, FC 1, Barite on board 427. Bit #59, 649077, M89TF, Noz 3-16, Depth in 14,456', Tot ftg 144' in 27 1/2 hrs, ROP 5.2, Cond IH. WOB 20/22, RPM 65, Pmp press 2100, Circ rate 221, AV 214-361. Pmp 1 SPM Liner 91 x 5 1/2 x 12, Max pmp press 3500. BHA: Bit, Junk Sub, Bit Sub, 8 HWDP, jars, 3 HWDP. Length of BHA 374.91'. Slow Circ Pmp 1 - 40 SPM @ 500 psi. Slow Circ Pmp 2 - 40 SPM @ 400 psi. Avg BGG 5, Max BGU 9. 24 hrs Drl 14,475-14,600'. Had drlg brk 14,596-14,600'. Co. man on loc - Acker. DMC \$1,851, CMC \$592,456, DWC \$20,738, CWC \$4,838,652

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drilg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

12-30-94: 14,604' - (4') Sandstone/Dolo, Hole Size 6-1/8", MW 8.7, Vis 47, PV 14, YP 11, Gels 2/10, pH 10.3, WL 6.8, Solids 3%, Sd .13, Chl 300, FC 1, Barite on board 282. Bit #59, 649077, M89TF, Noz 3-16, Depth in 14,456', Tot ftg 144' in 27 1/2 hrs, ROP 5.2, Cond: Lost 3 cones. WOB -, RPM -, Pmp press -, Circ rate 145, AV 145/238. Pmp 1 SPM Liner 60 x 5 1/2 x 12, Max pmp press 3500. BHA: Bit, Junk Sub, Bit Sub, 8 HWDP, jars, 3 HWDP. Length of BHA 374.91'. Avg BGG 7, Max BGU 7. Trip gas 14. After flow check lost 1000 psi, check surface equip, drop soft line, 3400 strokes, problem 30 stds down. POOH w/chain crack middle jt, std 33, 4" above pin, had 120,000# coming off btm. LD bad jt, press up to check string, GIH. Circ samples out of hole. Attempt to drill, high torque, mix and pump 2 pills Turbo Lube, no help. Strapped out of hole, 4' correction. Corrected depth to 14,604'. Lost 3 cones. PU reverse circ basket w/junk basket. GIH to 14,250 take wt, stuck. Jarring on stuck pipe. Pipe parted, lost 175,000#. POOH 18 std, pin down, box split or unscrewed, possibly 2 fish in hole. PU overshot dressed w/4-7/8" spiral grapples, control & bumper sub. GIH. LD top 3 jts. Bent bad when pipe parted, fish went down hole picking up singles to tag fish. Co. rep. on loc - Acker. DMC \$4,087, CMC \$594,692, DWC \$23,676, CWC \$4,862,328

12-31-94: 14,604' - (0') Sandstone/Dolo, Hole Size 6-1/8", MW 8.78, Vis 44, PV 15, YP 8, Gels 2/10, pH 9.7, WL 6.8, Solids 3%, Sd .14, Chl 300, FC 1, Barite on board 282. Fishing. Max pmp press 3500. BHA: Bit, Junk Sub, Bit Sub, 8 HWDP, jars, 3 HWDP. Length of BHA 374.91'. 1 hr Wrk OS over fish @ 1991'; PU 12,000# wt. 1 1/2 hrs POOH w/chain, 1st section - 12 std thread brk off pin, LD fish. 2 hrs Dress OS w/4-7/8" spiral grapple, control ext w/stop ring, GIH checking each conn f/proper torque. 1 1/2 hrs Got over fish; could not stay on. POOH f/4-3/4" grapple. 2 hrs Dress OS w/4-3/4" grapple, control pack off, GIH to TOF @ 3024'. 1/2 hr Attempt to catch fish, slipped off twice. 1 hr POOH, OS shows that we're not getting dn to grapple. 1 1/2 hrs PU 6-1/8" OS dressed w/4-7/8" grapples, control & pack off. GIH. 1 hr Wrk over fish; would not hold. 3 hrs TOH, dress OS w/4-3/4" grapple, GIH. 1 1/2 hrs Hook onto fish, attempt to circ. Pack off not holding, pull 275,000# & pld off. Latch back onto fish, pull 75,000#, check if it would stand left hand torque. 2 1/2 hrs RU Dialog & top drive. 2 1/2 hrs GIH w/Dialog, back off @ 6035'. 1 1/2 hrs POOH w/chain, LD bumper sub OS, top jt. 1 hr POH w/fish w/chain. Co. man on loc - Acker. DMC \$3,374, CMC \$598,066, DWC \$20,849, CWC \$4,883,181

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

01-01-95: 14,604' - (0') Sandstone/Dolo, Hole Size 6-1/8", MW 8.8, Vis 42, PV 11, YP 10, Gels 3/10, pH 8.4, WL 6.8, Solids 3%, Sd .12, Chl 300, FC 1, Barite on board 282. Fishing. Max pmp press 3500. BHA: Bit, Junk Sub, Bit Sub, 8 HWDP, jars, 3 HWDP. Length of BHA 374.91'. Avg BGG 5, trip gas 9. 1 hr Cont POOH w/fish standing in derrick, Rec 31 stds DP. 2 1/2 hrs Getting DP rubbers out of wellbore, rec 2 1/2 rubbers, one fell dn hole. 6 1/2 hrs GIH, checking each conn f/proper torque. LD 9 jts bent pipe. 1 hr Cln out V door of bent pipe. PU 11 jts 3 1/2", S135, 15.50# DP. 1/2 hr Brk circ, tag fish, screw into same. 3 1/2 hrs Circ btms up, spot Turbo Lub pill. 1 hr Trying to wrk pipe loose, pld 115,000# overpull, 325,000# several times. 2 hrs RU to rn free pt w/Dialog, change elev bails to 12'. 3 hrs Rn free pt, tl set dn @ 12,881'. 1 1/2 hrs Dialog GIH w/string shot & colr loc; back off @ 12,762'. 1 1/2 hrs POOH w/chain, max pull 320,000# to get moving, fell back to 280,000#. TOF @ 12,762'. Co. man on loc - Acker. DMC \$263, CMC \$598,329, DWC \$22,481, CWC \$4,905,662

01-02-95: 14,604' - (0') Sandstone/Dolo, Hole Size 6-1/8", MW 8.75, Vis 38, PV 10, YP 6, Gels 1/6, pH 9.8, WL 6.4, Solids 3%, Sd tr, Chl 300, FC 1, Barite on board 282. BHA: (Fishing) 1 jt 3 1/2", 13.30# DP, bumper sub, OJ, 10 jts HWDP, Acc jar. 6 1/2 hrs Cont POOH w/chain. Fish #3 rec 134 stds & a single. 56 std bent or corkscrewed. 6 1/2 hrs LD 133 jts bent DP. 1 1/2 hrs PU fishing BHA, 1 jt 3 1/2", 13.30#, S135 DP, bumper sub, OJ, 10 HWDP & acc jar (368.49'). 1 1/2 hrs TIH w/13.30# DP. 5 1/2 hrs PU 7 jts 13.30# DP, GIH w/rest of 13.30# DP. Move all DP rubbers. 2 1/2 hrs Strap, PU 119 jts 3 1/2", 15.50#, S135 DP. At report time 24 jts PU. TOF 12,762'. Co. man on loc - Acker. DMC \$284, CMC \$598,613, DWC \$21,160, CWC \$4,926,822

01-03-95: 14,604' - (0') Sandstone/Dolo, Hole Size 6-1/8", MW 8.8, Vis 40, PV 9, YP 8, Gels 2/8, pH 9.8, WL 6.4, Solids 3%, Sd .12, Chl 300, FC 1, Barite on board 282. BHA: (Fishing) 1 jt 3 1/2", 13.30# DP, bumper sub, OJ, 10 jts HWDP, Acc jars. Length of BHA: 368.49'. 4 hrs Cont PU 3 1/2", 15.50#, S135 DP. 1/2 hr Brk circ, tag fish (fish plgd). Screw into fish. 4 hrs Jarring on fish, made approx 3' passable, straightened kinks out of DP, last 2 hrs haven't made anything. 2 hrs RU Dialog, GIH w/1-3/4" spud bar w/jars; stuck @ 12,866', 2000# overpull to get free, POOH. 1 hr Jarring on fish while Dialog RU 1" rope socket, 1" spud bar & 1" jars. At 4:30PM fish started moving. 10 hrs POOH w/chain, wet string, LD fishing tls. 1 1/2 hrs Stand fish back in derrick. Tot fish destroyed will just barely stand in derrick (hvy wt included). 1 hr Drain BOP stack, rec 1 DP rubber, 1/2 of clamp - 1' of btm jet basket lost in hole. Junk in hole: 3 cones, 1 DP rubber, btm 1' of jet basket. Co. man on loc - Acker. DMC \$1,511, CMC \$600,123, DWC \$28,614, CWC \$4,955,436

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01-04-95: 14,604' - (0') SS/Dolo, Hole Size 6 1/8", MW 8.75, Vis 48, PV 18, YP 12, Gels 3/10, pH 8.8, WL 6.4, Sol 3%, Sd .12, Chl 300, FC 1, Barite on board 282. WOB (Millg) 2-10, RPM 65, PP 1250, Circ rate 170 GPM, AV 165/278. Pmp 2 SPM-Liner 79x5 1/2 x 12. Max PP 3500. BHA: Fish string, mill, 2 junk subs, BS, 7 HWDP, jar, 3 HWDP. Length of BHA 344.88'. Avg BGG 30, Max BGU 30. 3 hrs LD bent DP out of drk. 2 1/2 hrs PU fish BHA, 6" concave mill, JB, JB, BS, 7 HWDP, jars, 3 HWDP. GIH w/10 stds DP. 1 1/2 hrs Cut DL. 3 hrs Cont SLM in hole. 6 hrs PU 61 jts 3 1/2", 15.5#, S135 DP. Cont SLM in hole. 1/2 hr Brk circ @ shoe (9411'). 1 1/2 hrs Cont SLM in hole to 14,200'. 6 hrs W&R 14,200-14,596'. Co. man on loc-Acker. DMC \$2,244/CMC \$602,367/DWC \$21,157/CWC \$4,976,593

01-05-95: 14,599' - (4') Junk, Hole Size 6-1/8", MW 8.8, Vis 41, PV 10, YP 8, Gels 2/8, pH 10.2, WL 6.8, Solids 3%, Sd tr, Chl 300, FC 1. Mill Bit #2, 58-507, Concave, Depth in 14,595', Tot ftg 4' in 5 1/2 hrs, ROP .7, Cond 60%. Mill Bit #3, 3-9337, Concave, Noz 4, Depth in 14,599'. WOB 2-10, RPM 65, Pmp press 1900, Circ rate 170 GPM, AV 165/278. Pmp 2 SPM-Liner 70 x 5 x 10. Max pmp press 3500. BHA: Mill, 3 junk baskets, bit sub, 7 HWDP, jars, 3 HWDP. Length of BHA 348.69'. Wt in mud below jars 5500. 4 1/2 hrs POH w/mill #1. 1/2 hr Cln junk baskets, rec 1/2 lb of junk. 4 hrs RIH w/mill #2. PU 3 JB's. Wshd 65' to btm to junk. 5 1/2 hrs Milling on junk w/mill #2 f/14,595-14,599'. 4 1/2 hrs POH w/mill #2. 1/2 hr Cln JB's. 4 1/2 hrs MU 3 junk subs, mill #3 & RIH. Co. man on loc - Simpson. DMC \$3,333, CMC \$607,552, DWC \$21,548, CWC \$4,998,141

01-06-95: 14,601' - (2') Junk, Hole Size 6-1/8", MW 8.8, Vis 42, PV 12, YP 8, Gels 2/10, pH 9.6, WL 6.4, Solids 3%, Sd tr, Chl 300, FC 1. Mill Bit #3, 3-9337, Concave, Noz 4-20, Depth in 14,599', Tot ftg 1' in 7 1/2 hrs. Mill Bit #4, 80-0673, Flat Btm, Noz 4-20, Depth in 14,600', Tot ftg 1' in 5 1/2 hrs. WOB 2-10, RPM 65, Pmp press 1800, Circ rate 218 GPM, AV 212/357. Pmp 2 SPM-Liner 90 x 5 x 10. Max pmp press 3500. BHA: Mill, 3 junk baskets, bit sub, 7 HWDP, jars, 3 HWDP. Length of BHA 348.69'. Wt in mud below jars 5500. 1 hr RIH w/mill #3. 1/2 hr Wshd & rmd 140' to btm f/safety. 7 1/2 hrs Milling on junk w/mill #3 f/14,597-14,600'. 4 1/2 hrs POH w/mill #3, cln junk baskets. 5 hrs MU JB's & RIH w/mill #4. Wshd 65'. 5 1/2 hrs Milling w/#4 mill f/14,600-14,601'. DP parted @ 5:00AM. Trip gas 5500 units. Co. man on loc - Simpson. DMC \$1,758, CMC \$609,310, DWC \$21,583, CWC \$5,019,724

01-07-95: 14,600' - (0'), Hole Size 6 1/8", MW 8.8, Vis 35, PV 10, YP 4, Gels 1/6, pH 10.0, WL 6.4, Solids 3%, Sd tr, Chl 300, FC 1. Pmp press 1800, Circ rate 104 GPM, AV 188-318, Pmp 2 SPM-Liner 80x5x10, Max pmp press 3500. 1 hr DP parted 30 stds dn @ (2850'), POH. 2 hrs PU OS w/4 1/2" grapple, RIH. 5 hrs Engage fish, chain out w/fish, cont to POH w/mill #4. 2 hrs PU jet bskt, RIH. 1 hr SC DL. 2 hrs RIH. 1/2 hr Rep oil lks on top drive. 1 1/2 hrs RIH w/jet bskt. 1 hr Tagged @ 14,250', W&R @ 14,415'. 1 1/2 hrs DP parted, twisted off @ pin-2826'. 4 hrs LD DP. 2 hrs Strap pipe LD & pipe to PU. 1/2 hr PU OS w/4 1/2" grapple, bmpr sub & DP. RIH. Co. man on loc-Simpson. DMC \$2,980/CMC \$612,290/DWC \$27,651/CWC \$5,047,375

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01-08-95: 14,600' - (0'), Hole Size 6-1/8", MW 8.8, Vis 35, PV 9, YP 4, Gels 1/5, pH 10.0, WL 6.2, Solids 3%, Sd tr, Chl 300, FC 1. Max pmp press 3500. 5 hrs PU DP & RIH w/OS dressed w/4-5/8" grapple. 1 hr Wrk over fish, OS sliding off fish. 1 1/2 hrs Trip, redress OS w/4 1/2" grapple & RIH. 10 1/2 hrs Wrk over fish, pld 325,000# & WO Dialog - stuck dn the hill. 6 hrs RU Dialog, rn free point. Attempt to back off @ 14,020', did not back off. Rn 2nd shot, did not back off. Rn #3 @ 13,500'. GIH w/shot. Co. man on loc - Simpson. DMC \$200, CMC \$612,490, DWC \$18,200, CWC \$5,065,575

01-09-95: 14,600' - (0'), Hole Size 6-1/8", MW 8.8, Vis 42, PV 8, YP 11, Gels 0/1, pH 10.5, WL 6.4, Solids 3%, Sd tr, Chl 300, FC 1. Max pmp press 3500. 2 hrs Back off @ 13,600', RD Dialog. 1 1/2 hrs Circ btms up. 3 hrs Chain out of hole to TOF. LD fishing tls & RU laydown machine. 16 hrs Laydown 431 jts DP & 21 jts DC, chain out of hole. 1 1/2 hrs Caliper & measure fishing tls & HWDP. PU same & GIH. Co. man on loc - Simpson. DMC \$4,822, CMC \$617,312, DWC \$32,347, CWC \$5,097,922

01-10-95: 14,600' - (0'), Hole Size 6-1/8", MW 8.8, Vis 54, PV 28, YP 27, Gels 4/12, pH 9.0, WL 7.0, Solids 3%, Sd .13, Chl 300, FC 2. BHA: Screw in sub, 1 jt DP, Pmp out sub, Bumper sub, Jars, 12 HWDP, Jars. Length of BHA = 427.55'. 13 1/2 hrs PU 3 1/2, S-135, 13.30# DP. 1 1/2 hrs Circ on TOF & screw into fish. Jarring on fish @ 13,569'. 1/2 hr Rep low drum air fitting. 8 1/2 hrs jarring on fish - moved fish up 25'. Fish has not moved last 3 hrs. Called Dialog @ 11:00PM 1/9/95. Jarring on fish - brk fish free going dn. Co. man on loc - Simpson. DMC \$5,670, CMC \$622,982, DWC \$27,520, CWC \$5,125,442

01-11-95: 14,615' - (15'), Hole Size 6-1/8", MW 8.7, Vis 50, PV 21, YP 17, Gels 3/9, pH 9.5, WL 6.4, Solids 3%, Sd .13, Chl 300, FC 1. Bit #60, 649142, M89TF, Noz 3-16, Depth in 14,604', Tot ftg 11' in 2 hrs, ROP 5.5, Cond IH. WOB 10-18, RPM 65, Pmp press 1900, Circ rate 218 GPM, AV 212, Pmp 1 SPM-Liner 5 x 12, Pmp 2 SPM-Liner 90 x 5 x 10. Max pmp press 3500. BHA: Bit, JB, BS, 9 HWDP, Jars, 3 HWDP. Length of BHA = 396.14'. 5 hrs Jarring fish free. 5 1/2 hrs Chain out w/fish. 2 1/2 hrs LD tls & fish. 7 1/2 hrs PU bit, BHA & DP - RIH. Instl rubbers on DP. 1 1/2 hrs W&R 375' to btm - 2' of fill. 2 hrs Drlg w/bit #60 f/14,604-14,615'. Co. man on loc - Simpson. DMC \$3,660, CMC \$626,642, DWC \$47,901, CWC \$5,173,343

01-12-95: 14,724' - (109'), Hole Size 6-1/8", MW 8.8, Vis 54, PV 21, YP 15, Gels 5/15, pH 10.0, WL 7.2, Solids 3%, Sd .13, Chl 300, FC 1. Bit #60, 649142, M89TF, Noz 3-16, Depth in 14,604', Tot ftg 120' in 21 hrs, ROP 5.7, Cond IH. WOB 18-20, RPM 65, Pmp press 1800, Circ rate 218 GPM, AV 212, Pmp 1 SPM-Liner 5 x 12, Pmp 2 SPM-Liner 90 x 5 x 10. Max pmp press 3500. BHA: Bit, JB, BS, 9 HWDP, Jars, 3 HWDP. Length of BHA = 396.14'. 19 hrs Drlg w/bit #60 f/14,615-14,724'. 1 hr short trip 10 stds - no prob. 2 hrs Circ btms up - spot high vis pill on btm. 2 hrs POH to log. Pull DP rubbers off. Co. man on loc - Simpson. DMC \$4,438, CMC \$631,080, DWC \$20,683, CWC \$5,194,026

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01-13-95: 14,724' - (0'), Hole Size 6-1/8", MW 8.8, Vis 47, PV 17, YP 15, Gels 3/10, pH 9.5, WL 6.6, Solids 3%, Sd .13, Chl 300, FC 1. Bit #60, 649142, M89TF, Noz 3-16, Depth in 14,604', Tot ftg 120' in 21 hrs, ROP 5.7, Cond 4-5-l. Max pmp press 3500. 3-1/2 hrs POH to log. 1/2 hr RU loggers. 5-1/2 hrs Log #1 - Induction/Density/Neutron/GR. Rn temp log GIH f/14,704-13,240'. 6 hrs Log #2 - FACT-Sonic f/14,704-13,300'. 2 hrs Log #3 - FMI - stuck log @ 10,635'. 6-1/2 hrs Wrkg stuck log & WO fish tls. Co. man on loc - Simpson. DMC \$200, CMC \$631,280, DWC \$18,980, CWC \$5,213,006

01-14-95: 14,724' - (0'), Hole Size 6-1/8", MW 8.8, Vis 41, PV 9, YP 12, Gels 3/10, pH 9.0, WL 6.2, Solids 3%, Sd .13, Chl 300, FC 1. Bit #60 RR, 649142, M89TF, Noz 3-16, Depth in 14,724'. Max pmp press 3500. 2-1/2 hrs Wrk stuck logging tl @ 10,635' & WO fish tls. 3-1/2 hrs RU to strip over fish. 6-1/2 hrs Strip over wireline. 2-1/2 hrs Engage fish, pull out of rope socket. Pull out w/wireline & RD HSI. 1/2 hr Pull up in csg. 2-1/2 hrs Chg out bales & instl grappier on top drive. 4 hrs Chain out of hole. 1 hr LD fish & fish tls. 2 hrs RIH w/bit to cond hole. Co. man on loc - Simpson. DMC \$200, CMC \$631,480, DWC \$25,743, CWC \$5,238,749

01-15-95: 14,724' - (0'), Hole Size 6-1/8", MW 8.8, Vis 60, PV 12, YP 18, Gels 5/14, pH 8.5, WL 6.0, Solids 3%, Sd .13, Chl 300, FC 1. Pmp press 1900, Circ rate 218 GPM, AV 212, Pmp 2 SPM-Liner 90 x 5 x 10. Max pmp press 3500. BHA: DP. 1 hr RIH to btm of csg @ 9400'. 1 hr Slip & cut drlg line. 2 hrs Fin RIH to btm (14,724') - no fill. 2 hrs C&C hole, spot high vis pill on btm. 3-1/2 hrs POH to log. 2-1/2 hrs WO HSI. 4 hrs Log #4 - EMI. TI stpd @ 10,635', POOH, RD HSI. 3 hrs RU EMI tl on DP & tst EMI tl. 5 hrs Trip in w/EMI tl - slow @ 60 sec per std. Fill DP every 10 stds - 84 stds in hole. Co. man on loc - Simpson. DMC \$200, CMC \$631,680, DWC \$17,180, CWC \$5,255,929

01-16-95: 14,724' - (0'), Hole Size 6-1/8", MW 8.8, Vis 49, PV 21, YP 9, Gels 3/9, pH 9.5, WL 6.4, Solids 3%, Sd .13, Chl 300, FC 1. Pmp press 300, Circ rate 145 GPM, AV 141, Pmp 2 SPM-Liner 60 x 5 x 10. Max pmp press 3500. 3 hrs RIH w/EMI tl on DP - slow. Put side door tl in @ 9012' & RIH w/wireline. 1-1/2 hrs Latch into tl & tst OK. 5-1/2 hrs RIH w/DP & EMI tl - Slow. Fill DP every 10 stds. 1-1/2 hrs Opn tl, logged 60' f/14,686' - tl failed. 3-1/2 hrs Chain out of hole to side door tl. 2 hrs Pld wireline out. Line was bad. RD HSI. 1-1/2 hrs RIH to 12,652'. 5-1/2 hrs C&C hole @ 12,652'. WO HSI truck. Truck arrived @ 4:30AM. Co. man on loc - Simpson. DMC \$1,586, CMC \$633,266, DWC \$18,961, CWC \$5,274,890

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01-17-95: 14,724' - (0'), Hole Size 6-1/8", MW 8.8, Vis 51, PV 19, YP 12, Gels 3/9, pH 10.0, WL 6.8, Solids 3%, Sd .13, Chl 300, FC 1. Bit #60, RR 649142, M89TF, Noz 3-16, Depth in 14,724', Cond hole. Pmp press 1800, Circ rate 221 GPM, AV 214, Pmp 1 SPM-Liner 0 x 5 x 12, Pmp 2 SPM-Liner 91 x 5 x 10. Max pmp press 3500. Avg BGG 30, Max BGU 3500, Trip gas 3500. 3-1/2 hrs C&C hole @ 12,652'. WO HSI. 1/2 hr RU HSI & side entry sub. 1-1/2 hrs RIH w/WL, latch into EMI tl. 1-1/2 hrs RIH w/DP to 14,687'. 3 hrs POH 'slow', logging w/EMI f/14,687-12,990'. 1-1/2 hrs Unlatch, POH w/WL, RD. 4-1/2 hrs Chain out of hole. 1 hr Cln tl & LD. 4 hrs RIH w/bit #60RR. LD 12 jts DP. 1/2 hr W&R 14,644-14,724'; 80' to btm; 2' fill. 2-1/2 hrs C&C hole. Co. man on loc - Simpson. DMC \$530, CMC \$633,796, DWC \$175,760, CWC \$5,450,650

01-18-95: 14,724' - (0'), Hole Size 6-1/8", MW 8.8, Vis 53, PV 17, YP 16, Gels 3/11, pH 10.0, WL 7.0, Solids 3%, Sd .13, Chl 300, FC 1. Bit #60, RR 649142, M89TF, Noz 3-16, Depth in 14,724', Cond hole. Max pmp press 3500. 12-1/2 hrs C&C hole @ 14,724', spot high vis pill on btm, drpd drift dn 3-1/2" DP. 2-1/2 hrs POH, 96 stds back in derrick. 4-1/2 hrs RU L/D machine, LD excess DP. 4-1/2 hrs RU csg crew & rng 5" liner (30 jts). Co. men on loc - Simpson-Acker. DMC \$1,560, CMC \$634,828, DWC \$17,735, CWC \$5,468,403

01-19-95: 14,724' - (0'), Hole Size 6-1/8", MW 8.5, Vis 31, PV 6, YP 2, Gels 0/3, pH 9.5, WL 12, Solids 1%, Tr Sd, Chl 300, FC 1. Avg BGG 2, Max BGU 4. 5 hrs PU & Rn 5" csg.

5" Casing Detail:

95 stds 3-1/2" DP	9116.18'
1 - 5" setting sl w/10' ext	14.30'
1 - 5" PBR	10.02'
1 - 5", 18#, 7"x26" CMC hanger	6.76'
1 - XO	1.10'
40 jts, 18#, L-80, SLX	1737.23'
1 - pup jt	9.75'
1 - ECP pkr, 8RD	8.75'
1 - pup jt	19.35'
47 jts 18#, L-80, SLX	2031.28'
1 - XO	42.80'
36 jts 18#, L-80, STL	1562.61'
1 jt w/landing colr	43.03'
Float Colr	1.73'
Float or Guide Shoe	2.10'
CSG SET @	14606.99'
TOTAL LINER RN	5490.0'

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01-19-95: (Continued.....)

5 hrs PU & rn 5" liner. 2 hrs RD csg crew & L/D machine. RU to GIH w/3-1/2" DP. 3 hrs GIH w/3-1/2" DP to shoe @ 9400; 39 stds DP; 4 min per std. 4 hrs Circ, cut 8.8# mud to 8.5#. Btms up f/shoe = 2 un gas. 4-1/2 hrs Cont GIH w/3-1/2" DP, 4 min/std. Fill up every 10 stds. Pipe stuck 118' off btm (14,606'). 2-1/2 hrs Wrk stuck pipe @ 14,606'. Could not circ, pmp in fm w/1030 psi @ 4 BPM. 2 hrs Set liner hanger. Drop wiper plug, displ @ 4 BPM. Sheared pins w/1090 stk, 2600 stk plug on btm. Press up 1300 psi to set ECP. Rel press, PU & set CPH pkr w/50,000#. Press tst liner w/2000 psi f/30 min - OK. 1 hr Circ 8.8# mud @ top of liner @ 9116'. Circ btms up. RU L/D machine. Btms up gas = 52 un total. Co. man on loc - Acker. DMC \$890, CMC \$635,716, DWC \$28,904, CWC \$5,496,306 (Corrected)

01-20-95: 14,606' PBTD - (0'), Hole Size 5", MW 8.8, Vis 39, PV 7, YP 7, Gels 2/4, pH 9.5, WL 8, Solids 3%, Tr Sd, Chl 300, FC 1. Barite on board = 220. 6 hrs LD 3-1/2" DP. 1-1/2 hrs PU RBP; set @ 511'. LD 3-1/2" DP. 2 hrs RU double jack, stack lifters. 3 hrs ND BOP & drlg spool. Remove drlg spool. 3 hrs Instl tbg head, tst same, no tst. 4 hrs ND tbg head, check packing assy, NU & attempt to tst - 2000 psi - started lkg (no tst). The adaptor flanges, 13-5/8", 10M to 7-1/16", 5M will not wrk. Nuts will not go on f/tie dn pins in tbg head. 4-1/2 hrs ND & set out 13-5/8", 10M BOP. WO 7-1/16", 5M BOP & packing assy f/tbg spool. Co. man on loc - Acker. DMC \$2,368, CMC \$638,084, DWC \$28,293, CWC \$5,599,196

01-21-95: 14,606' PBTD - (0'), Hole Size 5", MW 8.8, Vis 39, PV 7, YP 7, Gels 2/4, pH 9.5, WL 8, Solids 3%, Tr Sd, Chl 300, FC 1. 6-1/2 hrs WO tbg hd packing & 7-1/16" x 5M BOP stack. Unload 326 jts 2-7/8", 6.5#, L80 tbg. 3 hrs Instl new packing in tbg hd. Weld 1-1/2" x 7", 26#, L80 onto csg. 1/2 hr Tst tbg hd to 4000 psi f/30 min (OK). 5 hrs Set in & NU 7-1/6" x 5M BOP. 3 hrs Tst BOP, all rams & vlvs w/5000 psi high & 450 psi low. Hydril 2500 psi high & 450 psi low. 6 hrs Strap & PU 41 stds of 2-7/8" tbg in derrick. Co. man on loc - Acker. DMC \$4,107, CMC \$642,193, DWC \$71,774, CWC \$5,670,970

01-22-95: 14,606' PBTD - (0'), Hole Size 5", MW 8.8, Vis 39, PV 7, YP 7, Gels 2/4, pH 9.5, WL 8, Solids 3%, Tr Sd, Chl 300, FC 1. 8-1/2 hrs Cont PU 2-7/8", 6.5#, L80, 8RD tbg. PU tot of 297 jts, 99 stds (9079.67'). 3-1/2 hrs GIH 5 stds, chg elevator bails, instl TIW. Latch onto BP, check f/press, well static. Pull BP loose, chg elevator bails. POOH, LD & load out same. NOTE: Thrds galled box BP & pin on tbg. 1/2 hr All personnel on loc, safety meeting about loaded guns to perf. 2 hrs Rn #1 - PU 30', 3-3/8" dummy csg gun w/o problems. 2-1/2 hrs Rn #2, Perf 14592-602'; 14572-582' & 13412-422'. POOH; all shots fired. Sli suction on tbg when opnd. 1-1/2 hrs Rn #3, perf 13375-385' & 13308-318'; all shots fired. 1-1/2 hrs Rn #4, perf 13203-213' & 11586-596'; all shots fired. All perfs 4 spf, diam 0.44". RD HLS. 2-1/2 hrs RU Campbell Hydrotesting. 1-1/2 hrs PU 4-1/4" OD x 2-7/8", 8RD seal assy, hydrotest to 7500 psi. GIH w/2-7/8" tbg; hydrotest to 7500 psi. Co. man on loc - Acker. DMC \$0, CMC \$642,193, DWC \$35,742, CWC \$5,706,712

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

01-23-95: 14,606' PBTD - (0'), Hole Size 5", MW 8.8, Vis 39, PV 7, YP 7, Gels 2/4, pH 9.5, WL 8, Solids 3%, Tr Sd, Chl 300, FC 1. Barite on board = 0. 8-1/2 hrs Cont PU 2-7/8", 6.5#, L80, 8RD tbg. 1 hr RD Campbell Hydrotesting. 2 hrs Space out used 2 pups (one 6' & one 10') below 1st jt. 298 jts screw in lock in pins. 3 hrs Displ annular w/8.8 mud w/1/4# PPB Cide 207 + 1/4# PPB Aldacide "G". Displ tbg w/52.7 bbls diesel. 1 hr Sting in tst seals 500 psi (OK). 3-1/2 hrs RU Halliburton slick line, set Baker F plug @ 2404'. RD Halliburton. 1 hr Attempt to back out landing jt, backed out below tbg landing plug. Screw out lock in pins. PU 8000#. 4 hrs WO tbg tongs. Co. man on loc - Acker. DMC \$0, CMC \$642,193, DWC \$71,975, CWC \$5,778,687

01-24-95: 14,606' PBTD - (0'), Hole Size 5". 2 hrs RU tbg tongs. 1 hr Trip out 17 stds, tbg backed off below colr. 1 hr LD & strap 2 jts tbg, PU 2 jts. 2-1/2 hrs GIH, screw into fish. 2 hrs POOH w/fish, LD screw in jt to TOF. 2 hrs PU 2 new jts tbg, GIH, space out, sting in, land tbg. Screw in lock-in pins, back out landing jt. 1 hr RU, tst backside to 500 psi - OK. 1/2 hr Set BPV. 2 hrs ND & set out BOP. 1 hr NU tree, tst to 5000 psi - OK. 9 hrs Cln pits, 1 vac truck, 1 dump truck wrkg. ND top drive. Co. man on loc - Acker. DMC \$0, CMC \$642,193, DWC \$15,514, CWC \$5,794,201

01-25-95: 14,606' PBTD - (0'), Hole Size 5" liner. 11 hrs Cln pits, RD top drive. 5 hrs WO vac trucks, RD floor. 8 hrs Cln mud pits. Rig rel @ 5:00AM 1/25/95. Co. man on loc - Acker. DMC \$0, CMC \$642,193, DWC \$12,440, CWC \$5,806,641

01-26-95: 14,606' PBTD - (0'), 24 hrs Rigging dn; 75% RD, 0% moved. Co. man on loc - Acker. DMC \$0, CMC \$642,193, DWC \$25,537, CWC \$5,832,178

01-27-95: 14,606' PBTD - (0'), 12 hrs RD & moving rig; 95% RD, 10% moved. 11-1/2 hrs WO daylight. Co. man on loc - Acker. DMC \$0, CMC \$642,193, DWC \$31,500, CWC \$5,835,678

01-28-95: 14,606' PBTD - (0'), 11 hrs RD (98% comp) & moving rig (40% comp). 13 hrs WO daylight. Co. man on loc - Acker. DMC \$0, CMC \$642,193, DWC \$2,285, CWC \$5,837,963

01-29-95: 14,606' PBTD - (0'), 11 hrs RD (100% comp) & moving rig (85% comp). 13 hrs WO daylight. Co. man on loc - Acker. DMC \$0, CMC \$642,193, DWC \$2,285, CWC \$5,840,248

01-30-95: 14,606' PBTD - (0'), 4 hrs Cont moving rig; 100% comp @ 11AM 1/29/95. 7 hrs Cln & level loc, set frac tks. 13 hrs WO daylight. Co. man on loc - Acker. DMC \$0, CMC \$642,193, DWC \$4,801, CWC \$5,845,044

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

01-31-95: 14,606' PBD - (0'), 1/2 hr Check f/press under BPV - no press. 8-1/2 hrs Pull tree cap, instl mud cross w/2 - 2-1/16", 5000# vlvs w/1 - 2-9/11", 5000# vlv looking up. Instl tree cap & Swaco super chk. STOP RU. 1-1/2 hrs All hands on loc by 1/31/95 to attend H₂S school. 5-1/2 hrs Cont RU frac tks, RU DC Well Testers. 8 hrs Cont RU manifold on frac tks, wrap w/heat tape & insulate same. Co. man on loc - Acker. DMC \$0, CMC \$642,193, DWC \$3,773, CWC \$5,848,817

02-01-95: 14,606' PBD - (0') 1/2 hr Check well f/press - none. 1/2 hr Check BPV f/press - none. Pull BPV. 9-1/2 hrs RU Halliburton S/L. GIH, tag plug @ 2382' SLM. Pull prong; no press, no vac. Attempt to pull plug; could not get in. Rn IB - indic LCM. PU hydrostatic bailer; attempting to latch on every 5 or 6 rns. At 4PM latched on, pld up 3 times - sheared off. PU shear dn tls & HYD jars. Latched on & POOH. Tight all the way, "O" rings on plug, brk dn tls & RD Halliburton. 11 hrs RU Nowcam. GIH jetting 850 CFM. In 2-1/2 hrs @ 11,000' rec 69 bbls (drlg mud). In 3-1/2 hrs rec 99 bbls. In 4-1/2 hrs rec 136 bbls. In 4-1/2 hrs @ 14,500' rec 176 bbls. At 4:30AM had tot of 462.6 bbls rec. At 4:30AM looks like wtr w/black BS with it, no hydrocarbon smell to it - possibly Turbo Chem. Co. man on loc - Acker/Landreth. DMC \$0, CMC \$642,193, DWC \$9,793, CWC \$5,858,610

02-02-95: 14,606' PBD - (0') 3-1/2 hrs Cont jetting well. At 8:30AM had rec 592.2 bbls (600 ppm H₂S), FL @ 11,000', Nowcam pmpg 800-500 CFM. 2-1/2 hrs POOH w/coil tbg, instl gauge & SWI. Tot wtr rec = 738 bbls. 7 hrs Monitor press; at 11AM - 10 psi, at 11:30AM - 75 psi, at 12 noon until 6PM - 110 psi. WO H₂S scavenger, cut 500' coil tbg (damaged). Unload both frac tks. 11 hrs GIH w/coil tbg using scavenger. FL @ 4500', 50 to 250 ppm H₂S in wtr @ man hole in frac tk. Rest of loc clear. Baroid mud engineer checked 3 mud samples; 1st & 2nd sample before SD; 3rd samp after returning to jetting. Rec 717 bbls in 24 hrs; tot wtr rec - 1180 bbls. TP 60 psi. Nowcam pmpg 500 SCFPM - well not flwg without assist. Co. men on loc - Acker/Landreth. DMC \$250, CMC \$642,443, DWC \$79,884, CWC \$5,938,494

02-03-95: 14,606' PBD - (0') 24 hrs Cont jetting well, TP 60 psi, Nowcam 500 SCFPM, H₂S 50-200 ppm @ manhole. Rest of loc clear. At 2PM incr circ rate from 500 to 1000 SCFPM. Go dn hole to 14,050'. At 5:00PM Btms up check samp - 3% oil, 375 ppm H₂S. At 7:00PM Check samp - no oil. Cont jetting, tot wtr rec 2608 BW, rec 1428 BW last 24 hrs, well not flwg. Co. men on loc - Acker/Landreth. DMC \$0, CMC \$642,443, DWC \$30,631, CWC \$5,969,125

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

02-04-95: 14,606' PBTD - (0') 13 hrs Jetting well w/CT & N₂, avg TP 120 psi, pmpg 750 SCFM N₂. H₂S concentration in tk 375 ppm, rest of loc clear. 3487 BTF rec to date, 879 bbls in last 24 hrs - all wtr, no oil, no solids, no LMC. Black wtr getting clearer. Pld CT to 11,100' @ 6 PM. SI well & pld CT to 2500'. SITP climbed f/120 psi to 1400 psi very rapidly. N₂ expansion, bled SITP back to 150 psi & final SI @ 7:15PM.

TIME	SITP	TIME	SITP	TIME	SITP
7:15PM	150	11:30PM	610	3:30AM	545
8:30PM	520	12:30AM	600	4:30AM	540
9:30PM	610	1:30AM	580	5:00AM	540
10:30PM	615	2:30AM	550		

Starting back in hole w/CT @ report time. Co. men on loc - Landreth. DMC \$0, CMC \$642,443, DWC \$36,246, CWC \$6,005,371

02-05-95: Opnd well @ 5AM, SITP 540 psi, bled to 100 psi in 4 min. FL seemed to be high (abv end to CT @ 2500'). FI to surf in 7 min while RIH w/CT. Caught samp & stpd @ 3000' jetting f/20 min. Samp had 1-2% oil (may be diesel used to mix H₂S inhib). Cont to RIH w/CT to 12,100', jetting w/700 SCFM N₂. FI prod fell f/29 BFPH to 1 BFPH. Incr N₂ inj to 1000 SCFM. Started unloading fl, some of which was drlg mud. Jetting @ 12,100' w/1000 SCFM f/3 hrs. Caught samp after stable rate of 66 BFPH was achieved. Samp cont tr of oil (may be diesel). Cont in hole w/CT to 14,050'. Jetted 4 hrs w/1000 SCFM. Caught samp after stable rate of 80 BFPH was achieved. Samp cont tr of oil (may be diesel). Shut off N₂ @ 4:30, POOH w/CT, left well opn to tk 12 hrs, well did not flw to tk. 4088 BFT rec to date, 600 bbls in last 24 hrs. Black wtr appears to cont some small fibers, may be LCM. Starting back in hole w/CT at report time. Co. men on loc - Landreth. DMC \$0, CMC \$642,443, DWC \$52,499, CWC \$6,057,870

02-06-95: Started in hole w/CT @ 5:00AM. FL was 3200'. Caught samp - no oil in samp. Jetting N₂ @ 500-750 SCFM. Cont to RIH w/CT to 12,100' jetting w/1000 SCFM N₂. Jetting @ 12,100' w/1000 SCFM f/tot of 4 hrs. Caught samp after 3 hrs & stable rate of 70 BFPH was achieved. This samp was drlg mud & cont 20% oil. Jetted f/12,100' f/another hr (tot of 4 hrs) hoping to see more drlg mud. Only rec black wtr during 4th hr. Cont in hole w/CT to 14,050'. Jetted 4 hrs w/750 SCFM. Caught samp after stable rate was achieved. Samp cont no oil. Shut off N₂ @ 6:00, POOH w/CT. Left well opn to tk f/11 hrs. Well did not flw to tk. 4784 BTF rec to date, 696 bbls in last 24 hrs. Black wtr appears to cont small fibers, may be LCM. Starting back in hole w/CT @ report time. Co. men on loc - Landreth. DMC \$0, CMC \$642,443, DWC \$26,904, CWC \$6,084,774

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

02-07-95: 14,606' PBTD (0') - RIH w/CT, FL 3100'. Caught samp - no oil in samp. Jetting N₂ @ 500 SCFM, rec 18 BFPH. Turned flw to sep, cont to RIH to 14,050'. Jetting w/1000 SCFM N₂, rec avg 75 BFPH; black wtr - no oil in samp. Reduced N₂ inj rate f/1000 SCFM to 250 SCFM. Fl rec drpd f/75 BFPH to 0 BFPH in 1-1/2 hrs. Ret inj rate to 1000 SCFM without restoration of fl prod. Pld CT up to 10,700' w/inj rate to 1000 SCFM & restored fl prod. RIH w/CT to 14,050' & began to slowly reduce N₂ inj rate. Fl prod stab @ 32 BFPH w/800 SCFM N₂ inj. Flwg thru sep @ 140°F attempting to brk out any oil in wtr. Oil dump was dumping into a samp bottle. No oil rec. Wtr samples got cleaner, lighter colored and clearer thru the night. 5520 BTF rec to date; 736 bbls in last 24 hrs. Oil reported on the disposal pit where prod wtr has been hauled. Samp skimmed off pit & sent to lab in SLC, UT. Co. man on loc - Landreth. DMC \$0, CMC \$642,443, DWC \$48,673, CWC \$6,133,447

02-08-95: 14,606' PBTD (0') - Jetting w/CT f/14,050' f/6 hrs. Fl prod stab @ 30 BFPH w/800 SCFM of N₂ inj. Flwg thru sep @ 140°F attempting to break out any oil in wtr. SD jetting & ceased operations. 5746 BTF rec to date, 226 bbls in last 24 hrs. No show of oil or burnable gas. Samp skimmed off pit & sent to Ford Lab in SLC proved to be diesel. RD Nowcam & set an FMC Type IS back press vlv. Began RD loc. FINAL REPORT. Co. man on loc - Landreth. DMC \$0, CMC \$642,443, DWC \$22,755, CWC \$6,156,202

P & A PROCEDURE

03-07-95: Set & tstd guideline anchors. MIRU Western Well Service Rig #19. Set H₂S safety triler & laid out air lines. RU FMC WH lub & bled press f/under BPV, press less than 50 psi - didn't move needle on gauge. Pld BPV. Caught 2 gas samps f/lub. RU swb lub & attempted to swb fl samp. Undersized swb cups wouldn't pass thru 2.31" ID "F" nip @ 2349'. Fabricated a fl bailer f/1.75" pipe & rn on sand line. Retrieved fl samp @ 3200' FL - samp black odorous wtr.

03-08-95: No press on well. POOH w/tbg. Tbg was overtorqued. LD 4 bad tbg jts & 1 pup jt w/stripped/galled thrds. RIH w/5" EZSV on wireline & set @ 11,350'. PU stinger & RIH w/tbg. PU 92 singles to sting into EZSV cmt retainer. RU Halliburton & estab inj w/1100 psi @ 7 BPM under the cmt retainer. Mixed & pmpd 100 sx of Premium cmt w/35% SSA-1 (temp stabilizer), 0.3% CFR-3 & 0.3% HR-5. Displ w/66 BW. Pld out of the retainer & POOH w/20 jts tbg. SWIFN. Will roll hole & cont setting cmt plugs in AM. Co. man on loc - Landreth. DWC \$7,656, CWC \$6,171,252

CHRONOLOGICAL WELL REPORT

HOC Oper., Indianola Federal 24-1, Indianola Prospect, Expl., Utah County, Utah, PTD 11,500' MD/10,500' TVD, Nugget, Drlg AFE 94-3639, \$2,620,000, Completion AFE 94-3640, \$653,000, Parker Rig #233, Spud 8-14-94, GL 7439', KB 7459', 13-3/8" @ 165', 9-5/8" @ 2460', 7" @ 9411', 5" @ 14607'

03-09-95: No press on well. RIH & tagged cmt @ 11,324'. Filled up 7" csg w/30 BW. Circ well f/one full circ. POOH laying dn tbg to place EOT @ 9,221'. Mixed & sptd 30 sx balanced cmt plug cont 0.2% HR-5 across liner top f/9,221 to 9,019'. POOH w/12 jts tbg, rev out w/70 BW & WOC f/4 hrs. RIH w/tbg to TOL @ 9116' to tag cmt - no cmt. Pld up & rev out tbg then rn tbg back into 5" liner to spot another cmt plug. Placed EOT @ 9,221'. No cmt observed in top of 5" liner. Rev out prior to setting 2nd cmt plug. Mixed & pmpd 60 sx balanced neat cmt plug f/9221-8830'. POOH laying dn 14 tbg jts & stdg back 60 jts. SWIFN w/EOT @ 7,004'. Will tag cmt plug @ 8830' & cont setting cmt plugs in AM. Co. man on loc - Landreth. DWC \$4,693, CWC \$6,175,945

03-10-95: No press on well. RIH & tagged cmt @ 8,837'. POOH laying dn tbg to place EOT @ 3,770'. Mixed & sptd 30 sx balanced cmt plu cont 0.2% HR-5 f/3,770-3,604'. POOH laying dn tbg to place EOT @ 2,516'. Mixed & sptd 30 sx balanced cmt plug 2,516-2,350'. POOH laying dn tbg & sting. PU HOWCO sd jt cutting tl on 2 jts tbg & cut 7" csg 55' below GL. POOH & LD sd cutting tl, 7" & 9-5/8" x 7" annulus stdg full of fl. ND BOP & RU to circ dn 7" csg & back up 9-5/8" x 7" annulus. Circ 20 sx cmt filling the 7" csg & annulus f/55' below GL to surf. Wshd out tbg spool & csg hanger. ND tbg spool & began RD serv rig. Will pull cellar, cut off csgrs & weld on plate 3/11/95. Co. man on loc - Landreth. DWC \$27,484, CWC \$6,203,429

03-11-95: Dug out & pld steel cellar. Cut off 9-5/8" & 7" casings 5' below GL. Welded on steel plate w/required information & filled in cellar. Surf restoration remains to be done. Well PLUGGED AND ABANDONED. **FINAL REPORT**. Co. man on loc - Landreth. DWC \$1,900, CWC \$6,205,329